

Maths Basic Facts: Black Bingo Grid

Practise these activities to help you progress to the next level

KEY SKILLS			
Halves to 10	Doubles to 10	Addition and Subtraction	Patterns to 10
<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with halves</p>	<p><u>Playing Cards</u></p> <p>Using number cards from a pack of playing cards, pick a card and then double it.</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with number bonds.</p>	<p><u>Thigh, clap, snap, snap</u></p> <p>Create a counting pattern by patting your thighs, clapping, then snapping your fingers on each hand.</p>
<p><u>Target Practise</u></p> <p>Make a target board in a safe space with numbers from 1-5. Throw something soft at 2 numbers and add/subtract them together.</p>	<p><u>Dice</u></p> <p>Roll 1 die and then double the number you get.</p>	<p><u>Coins</u></p> <p>Use 2 coins up to 10 pence. Add their value together.</p>	<p><u>Pass</u></p> <p>With a partner, count up and back to 10 whilst passing an object. Take turns to say each number.</p>
<p><u>How Many?</u></p> <p>How many different ways can you make 10 using different calculations?</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with doubles.</p>	<p><u>Daily 10</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.</p>	<p><u>Daily Rigour</u></p> <p>Visit the Daily Rigour website. Can you complete the problem solving tasks for the week in FIRST LEVEL?</p>
<p><u>Number Bonds</u></p> <p>Have a partner give you a number between 0 - 10. What number would you need to add to it to make the number 10? EXAMPLE: What do you add to 8 to make 10?</p>	<p><u>Memory Game</u></p> <p>Make number cards to 20. Place them upside down and play the memory game making number bonds to 20.</p>	<p><u>Eye Spy</u></p> <p>Find numbers around the house. Add them together!</p>	<p><u>Sumdog</u></p> <p>Log on to Sumdog - how many questions can you answer correctly?</p>

Maths Basic Facts: Yellow Bingo Grid

Practise these activities to help you progress to the next level

KEY SKILLS

Addition Facts	Subtraction Facts	Numbers to 100	Doubles and Halves
<u>Hit the Button</u> Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with addition.	<u>Target Practise</u> Make a target board in a safe space with numbers from - 10. Throw something soft at 2 numbers and add/subtract them together.	<u>Thigh, clap, snap, snap</u> Create a counting pattern to 100 by patting your thighs, clapping, then snapping your fingers on each hand.	<u>Playing Cards</u> Using number cards from a pack of playing cards, pick a card and then double it.
<u>Coins</u> Collect coins with a maximum value of 10 pence. Add their value together.	<u>How Many?</u> How many different ways can you make 20 using different calculations?	<u>Pass</u> With a partner, count up and back to 100 whilst passing an object. Take turns to say each number.	<u>Dice</u> Roll 2 dice and then double the numbers you get.
<u>Daily Rigour</u> Visit the Daily Rigour website. Can you complete the problem solving tasks for the week in FIRST LEVEL?	<u>Number Bonds</u> Have a partner give you a number between 0 - 20. What number would you need to add to it to make the number 20? EXAMPLE: What do you add to 18 to make 20?	<u>Eye Spy</u> Find numbers around the house. Add them together!	<u>Hit the Button</u> Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with doubles and halves
<u>Sumdog</u> Log on to Sumdog - how many questions can you answer correctly	<u>Hit the Button</u> Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with subtraction	<u>Memory Game</u> Make number cards to 20. Place them upside down and play the memory game making number bonds to 20.	<u>Daily 10</u> Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.

Maths Basic Facts: Red Bingo Grid

Practise these activities to help you progress to the next level

KEY SKILLS			
Addition and Subtraction	Times Table Facts	Division Facts	Doubles and Halves
<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with addition and subtraction</p>	<p><u>Thigh, clap, snap, snap</u></p> <p>Create a counting pattern for 2, 5 and 10 times tables by patting your thighs, clapping, then snapping your fingers on each hand.</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with division tables.</p>	<p><u>Dice</u></p> <p>Roll 2 dice and then double the number you get. If you get an even number can you halve it?</p>
<p><u>Eye Spy</u></p> <p>Find numbers around the house. Add them together or subtract them</p>	<p><u>Pass</u></p> <p>With a partner, count up and down your 2, 5 and 10 times tables whilst passing an object. Take turns to say each number.</p>	<p><u>Odds and Evens</u></p> <p>Write out all your numbers to 100 and colour in the odd and even numbers.</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with halves and doubles</p>
<p><u>Daily Rigour</u></p> <p>Visit the Daily Rigour website. Can you complete the problem solving tasks for the week in FIRST LEVEL?</p>	<p><u>Dice</u></p> <p>Roll two dice and multiply them together.</p>	<p><u>Target Practise</u></p> <p>Make a target board in a safe space with numbers from 1-10 Throw something soft at 3 numbers and add/subtract them together.</p>	<p><u>Colourful Tables</u></p> <p>Write out all your numbers to 100 and colour the 2, 5 and 10 times table stations in colours.</p>
<p><u>Rigour Maths Calendar</u></p> <p>Can you complete the First Level Calendar?</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with multiplication tables.</p>	<p><u>Daily 10</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.</p>	<p><u>Sumdog</u></p> <p>Log on to Sumdog - how many questions can you answer correctly</p>

Maths Basic Facts: Blue Bingo Grid

Practise these activities to help you progress to the next level

KEY SKILLS

2 Digit Multiplication	Times Table Facts	Division Facts	Doubles and Halves
<p><u>Think of a Number</u></p> <p>Think of a number up to 144. How many ways can you divide it without a remainder?</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with multiplication tables.</p>	<p><u>Coconut Multiples</u></p> <p>Visit the Top Marks Website and search for Coconut Multiples. Practise your times tables.</p>	<p><u>Maths Playground</u></p> <p>Search for Maths Playground and find the game Multiplication Snake. Practise your chosen times table.</p>
<p><u>Countdown</u></p> <p>Visit Nrich Maths: Countdown to play the classic game and practise your mental maths agility.</p>	<p><u>Buzz</u></p> <p>With a partner, choose a times table to practise and then take turns counting in ones. When you hit a station of the times table say 'buzz' instead of the number. How far can you get?</p>	<p><u>Target Practise</u></p> <p>Make a target board in a safe space with numbers from 1 - 10 Throw something soft at 2 numbers and multiply them together</p>	<p><u>Number Bonds</u></p> <p>Have a partner give you a number between 0 - 100. What number would you need to add to it to make the number 100? EXAMPLE: What do you add to 68 to make 100?</p>
<p><u>Meteor Multiplication</u></p> <p>Visit the Top Marks Website and search for Meteor Multiplication. Practise your times tables.</p>	<p><u>Colourful Tables</u></p> <p>Write out all your numbers to 100 and colour the 2 - 10 times table stations in different colours.</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with division tables.</p>	<p><u>Choose 5</u></p> <p>Choose five even 2 digit numbers. Double and halve each of them.</p>
<p><u>Daily Rigour</u></p> <p>Visit the Daily Rigour website. Can you complete the problem solving tasks for the week in SECOND LEVEL?</p>	<p><u>Rigour Maths Calendar</u></p> <p>Can you complete the Second Level Calendar?</p>	<p><u>Daily 10</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.</p>	<p><u>Sumdog</u></p> <p>Log on to Sumdog - how many questions can you answer correctly</p>

Maths Basic Facts: Green Bingo Grid

Practise these activities to help you progress to the next level

KEY SKILLS			
Single Digit by Multiple of 10	Multiplication & Division Facts	Single Digit by Multiple of 100	Division Facts with 10s
<p><u>Pass</u></p> <p>Choose a single digit number. Have a partner throw an object for you to catch and multiply the number by 10.</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with multiplication and division tables.</p>	<p><u>Pass</u></p> <p>Choose a single digit number. Have a partner throw an object for you to catch and multiply the number by 100</p>	<p><u>Think of a Number</u></p> <p>Think of a number up to 1000 Divide it by 10, 100 and 100. What pattern do you see?</p>
<p><u>Target Practise</u></p> <p>Make a target board in a safe space with numbers from 1 - 10 Throw something soft at 2 numbers and multiply them together</p>	<p><u>Buzz</u></p> <p>With a partner, choose a times table to practise and then take turns counting in ones. When you hit a station of the times table say 'buzz' instead of the number. How far can you get?</p>	<p><u>Colourful Tables</u></p> <p>Write out all your numbers to 144 and colour all the times table stations in different colours.</p>	<p><u>Countdown</u></p> <p>Visit Nrich Maths: Countdown to play the classic game and practise your mental maths agility.</p>
<p><u>Think of a Number 2</u></p> <p>Think of a number up to 1000 Multiply it by 10, 100 and 100. What pattern do you see?</p>	<p><u>Rigour Maths Calendar</u></p> <p>Can you complete the Second Level Calendar?</p>	<p><u>How Many?</u></p> <p>How many different ways can you make 500 using different calculations?</p>	<p><u>Four In A Row</u></p> <p>Visit the Nrich Website and search for 'For Go'. To be played with a partner.</p>
<p><u>A Square of Numbers</u></p> <p>Visit the Nrich Website and search for A Square of Numbers. Solve the square puzzle.</p>	<p><u>Daily Rigour</u></p> <p>Visit the Daily Rigour website. Can you complete the problem solving tasks for the week?</p>	<p><u>Daily 10</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.</p>	<p><u>Sumdog</u></p> <p>Log on to Sumdog - how many questions can you answer correctly</p>

Maths Basic Facts: Purple Bingo Grid

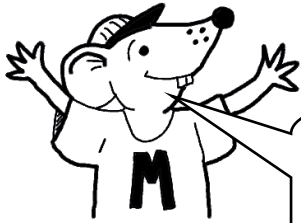
Practise these activities to help you progress to the next level

KEY SKILLS			
Prime Numbers	Multiples for all numbers	Products	Factors
<p><u>Buzz</u></p> <p>With a partner take turns counting in ones. When you hit a prime number say 'buzz' instead of the number. How far can you get?</p>	<p><u>Colourful Tables</u></p> <p>Write out all your numbers to 144 and colour the all the times table stations in different colours.</p>	<p><u>Hit the Button</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'Hit the Button' with products.</p>	<p><u>List</u></p> <p>Choose a 2 digit number. How many factors can you list for the number in 60 seconds?</p>
<p><u>Colourful Primes</u></p> <p>Write out all a list of numbers to 100 and colour all the prime numbers. Can you extend past 100?</p>	<p><u>Target Practise</u></p> <p>Make a target board in a safe space with numbers from 1 - 10 Throw something soft at 2 numbers and multiply them together</p>	<p><u>Choose 5</u></p> <p>Choose five 2 digit numbers ending in 0. How many multiplication sums can you make using them?</p>	<p><u>Countdown</u></p> <p>Visit Nrich Maths: Countdown to play the classic game and practise your mental maths agility.</p>
<p><u>Memory Game</u></p> <p>Make number cards of decimals totalling one. Place them upside down and play the memory game making a whole number.</p>	<p><u>Daily Rigour</u></p> <p>Visit the Daily Rigour website. Can you complete the problem solving tasks for the week?</p>	<p><u>How Many?</u></p> <p>How many different ways can you make 1000 using different calculations?</p>	<p><u>Meteor Multiplication</u></p> <p>Visit the Top Marks Website and search for Meteor Multiplication. Practise your times tables, products and factors.</p>
<p><u>Maths Playground</u></p> <p>Search for Maths Playground and find the game Factor Trees. Practise finding Highest and Lowest Common Factors.</p>	<p><u>Rigour Maths Calendar</u></p> <p>Can you complete the Second Level Calendar?</p>	<p><u>Daily 10</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.</p>	<p><u>Sumdog</u></p> <p>Log on to Sumdog - how many questions can you answer correctly</p>

Maths Basic Facts: **Pink** Bingo Grid

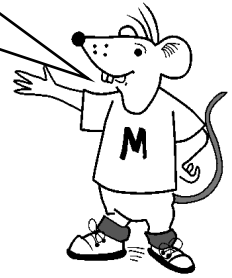
Practise these activities to help you progress to the next level

KEY SKILLS			
Basic Operations	Adding and Subtracting Decimals	Powers of Numbers	Multiplication and Division of Decimals
<p><u>Daily Rigour</u></p> <p>Visit the Daily Rigour website. Can you complete the problem solving tasks in THIRD LEVEL for the week?</p>	<p><u>Choose 5</u></p> <p>Choose five 3 digit numbers. How many multiplication and division sums can you make using them?</p>	<p><u>Colourful Powers</u></p> <p>Write out numbers from 1- 100. Colour in all the square numbers. Colour in all the cube numbers.</p>	<p><u>Think of a Number</u></p> <p>Think of a number up to 1000 with decimals. E.G. 658.2 Multiply and divide it by 10, 100 and 100. What patterns do you see?</p>
<p><u>Meteor Multiplication</u></p> <p>Visit the Top Marks Website and search for Meteor Multiplication. Practise your times tables, factors, products and square/cube numbers.</p>	<p><u>How Many?</u></p> <p>How many different ways can you make 5000 using different calculations?</p>	<p><u>Choose 5</u></p> <p>Choose five 3 digit numbers. How many addition and subtraction sums can you make using them?</p>	<p><u>Countdown</u></p> <p>Visit Nrich Maths: Countdown to play the classic game and practise your mental maths agility. Set yourself a 60 second limit</p>
<p><u>Rigour Maths Calendar</u></p> <p>Can you complete the Third Level Calendar?</p>	<p><u>Square Sequence</u></p> <p>Create a list of all the square numbers that you know. How far can you get in 60 seconds?</p>	<p><u>Common Factors</u></p> <p>Choose two 2 digit numbers. How many factors do they share?</p>	<p><u>Multiplication Squares</u></p> <p>Visit the Nrich Website and search for Multiplication Squares. Solve the grids.</p>
<p><u>Target Practise</u></p> <p>Make a target board in a safe space with numbers from 1 - 10 Throw something soft at 2 numbers and multiply them together. How many can you do in 60 seconds?</p>	<p><u>Maths Playground</u></p> <p>Search for Maths Playground and find the game Factor Trees. Practise finding Highest and Lowest Common Factors.</p>	<p><u>Daily 10</u></p> <p>Visit the Top Marks website or download the Top Marks App. Play 'The Daily 10' and choose the topic you wish to practise.</p>	<p><u>Sumdog</u></p> <p>Log on to Sumdog - how many questions can you answer correctly</p>



If a half of 36 is 18,
then doubling 18
gives 36.

That's very
sensible!



1. Write the opposite statements to the ones in the questions.
e.g. in a. the opposite is "**Double 9 is 18**".

a. A half of 18 is 9 b. $\frac{1}{2}$ of 56 is 28

c. A half of 64 is 32 d. $\frac{1}{2}$ of 380 is 190

e. A half of 560 is 280 f. $\frac{1}{2}$ of £46.40 is £23.20

g. A half of 370 is 185 h. $\frac{1}{2}$ of 670m is 335m

2. See how quickly you can **double** all these numbers:

a. 12 b. 35 c. 60 d. 58 e. 42 f. 62

g. 89 h. 37 i. 44 j. 55 k. 81 l. 45

m. 86 n. 63 o. 99 p. 52 q. 73 r. 82

s. 39 t. 93 u. 15 v. 18 w. 26 x. 10

3. See how quickly you can **halve** all these numbers:

a. 40 b. 36 c. 62 d. 68 e. 64 f. 92

g. 22 h. 74 i. 84 j. 72 k. 60 l. 32

m. 50 n. 48 o. 26 p. 80 q. 56 r. 38

s. 46 t. 78 u. 90 v. 88 w. 98 x. 20



I'm just measuring how long this is taking
you.



Can you double any
multiple of 10 up to 1 000 ?

I believe I can.
Can you?



1. See how quickly you can **double** all these numbers:

- a. 350 b. 230 c. 180 d. 640 e. 220 f. 150
g. 480 h. 130 i. 280 j. 550 k. 370 l. 180
m. 260 n. 750 o. 650 p. 120 q. 730 r. 810
s. 760 t. 450 u. 320 v. 360 w. 160 x. 700

2. See how quickly you can **double** all these numbers:

- a. 1 200 b. 2 500 c. 3 400 d. 2 700
e. 6 700 f. 3 100 g. 5 500 h. 1 300
i. 5 800 j. 5 200 k. 4 500 l. 1 100
m. 4 900 n. 6 600 o. 9 900 p. 8 300
q. 2 400 r. 7 200 s. 3 500 t. 4 700
u. 3 200 v. 3 500 w. 9 300 x. 4 100

3. See how quickly you can **halve** all these numbers:

- a. 280 b. 36 c. 680 d. 8 400 e. 320
f. 2 800 g. 9 000 h. 180 i. 4 200 j. 5 800
k. 84 l. 56 m. 126 n. 940 o. 380
p. 38 q. 96 r. 28 s. 82 t. 3 800
u. 284 v. 840 w. 666 x. 990



Here are some
doubling and halving
questions with words.

Words? That
sounds like fun!



1.

a. Double 37

b. What is twice 58 ?

c. What is twice 39 ?

d. What is one half of 56?

e. Calculate one half of 45

f. What fraction 16m is 8m ?

g. What fraction of 20 is 5 ?

h. Calculate one half of 376.

i. What is a half of £288 ?

j. Halve 86

k. What is twice 134 ?

l. What is a half of 89 ?

m. What is one half of £37.50 ? n. What is one half of £126.60 ?

2. Fill the numbers in the boxes:

a. $380 \times 2 = \square$

b. $3\,400 \div 2 = \square$

c. $315 \times 2 = \square$

d. $\square \div 2 = 94$

e. $\square \times 2 = 226$

f. $\square /_2 = 82$

g. $520 \times 2 = \square$

h. $2\,600 \div 2 = \square$

i. $226 \times 2 = \square$

j. $\square \div 2 = 78$

k. $\square \times 2 = 312$

l. $\square /_2 = 72$



Answers

Page 1

1. a. Double 9 is 18 b. Double 28 is 56 c. Double 32 is 64
d. Double 190 is 380 e. Double 280 is 560 f. Double £23.20 is £46.40
g. Double 185 is 370 h. Double 335m is 670m

2. a. 24 b. 70 c. 120 d. 116 e. 84 f. 124 g. 178
h. 74 i. 88 j. 110 k. 162 l. 90 m. 172 n. 126
o. 198 p. 104 q. 146 r. 164 s. 78 t. 186 u. 30
v. 36 w. 52 x. 20

3. a. 20 b. 18 c. 31 d. 34 e. 32 f. 46 g. 11
h. 37 i. 42 j. 36 k. 30 l. 16 m. 25 n. 24
o. 13 p. 40 q. 28 r. 19 s. 23 t. 39 u. 45
v. 44 w. 49 x. 10

Page 2

1. a. 700 b. 460 c. 360 d. 1 280 e. 440 f. 300
g. 960 h. 260 i. 560 j. 1 100 k. 740 l. 360
m. 520 n. 1 500 o. 1 300 p. 240 q. 1 460 r. 1 620
s. 1 520 t. 900 u. 640 v. 720 w. 320 x. 1 400

2. a. 2 400 b. 5 000 c. 6 800 d. 5 400 e. 13 400 f. 6 200
g. 11 000 h. 2 600 i. 11 600 j. 10 400 k. 9 000 l. 2 200
m. 9 800 n. 13 200 o. 19 800 p. 16 600 q. 4 800 r. 14 400
s. 7 000 t. 9 400 u. 6 400 v. 7 000 w. 18 600 x. 8 200

3. a. 140 b. 18 c. 340 d. 4 200 e. 160 f. 1 400
g. 4 500 h. 90 i. 2 100 j. 2 900 k. 42 l. 28
m. 63 n. 470 o. 190 p. 19 q. 48 r. 14
s. 41 t. 1 900 u. 142 v. 420 w. 333 x. 495

Page 3

1. a. 74 b. 116 c. 78 d. 28 e. $22\frac{1}{2}$ f. $\frac{1}{2}$
g. $\frac{1}{4}$ h. 188 i. £144 j. 43 k. 268 l. $44\frac{1}{2}$
m. £18.75 n. £63.30

2. a. 760 b. 1 700 c. 630 d. 188 e. 113 f. 164
g. 1 040 h. 1 300 i. 452 j. 156 k. 156 l. 144



If we want to double a number such as **87**, we can double the **80** and then double the **7**.

1. Try doubling these numbers using this idea:

a. 56 b. 45 c. 27 d. 84

e. 43 f. 39 g. 55 h. 62

2. Try doubling these more difficult numbers using this idea:

a. 96 b. 88 c. 67 d. 95

e. 58 f. 77 g. 93 h. 47

We can do the same thing with halving.

Half of **464** is:

half of **400** add half of **60** add half of **4**.

= **200**

+ **30**

+ **2**

= **232**



3. Try halving these numbers using this idea:

a. 444 b. 264 c. 856 d. 486

e. 476 f. 904 g. 428 h. 664

4. Try halving these more difficult numbers using this idea:

a. 294 b. 476 c. 364 d. 298

e. 456 f. 254 g. 746 h. 272

5. Using these ideas, see how quickly you can work out these little beauties!

a. 46×2 b. 53×2 c. $726 \div 2$ d. 48×2

e. $632 \div 2$ f. $854 \div 2$ g. 26×2 h. 47×2



If we want to double a number such as **68**, we can double the **60** and then double the **8**.

1. Try doubling these numbers using this idea:

a. 42 b. 52 c. 64 d. 85

e. 36 f. 75 g. 56 h. 34

2. Try doubling these more difficult numbers using this idea:

a. 74 b. 58 c. 76 d. 63

e. 86 f. 95 g. 79 h. 88

We can do the same thing with halving.

Half of **586** is:

half of **500** add half of **80** add half of **6**.

= **250**

+ **40**

+ **3**

= **293**



3. Try halving these numbers using this idea:

a. 642 b. 468 c. 234 d. 436

e. 638 f. 854 g. 920 h. 564

4. Try halving these more difficult numbers using this idea:

a. 546 b. 238 c. 474 d. 566

e. 964 f. 474 g. 834 h. 532

5. Using these ideas, see how quickly you can work out these little beauties!

a. 85×2 b. 64×2 c. $640 \div 2$ d. 77×2

e. $864 \div 2$ f. $956 \div 2$ g. 39×2 h. 27×2

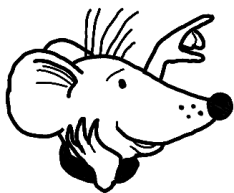
Answers

Page 1

1. a. 112 b. 90 c. 54 d. 168 e. 86 f. 78 g. 110 h. 124
2. a. 192 b. 176 c. 134 d. 190 e. 116 f. 154 g. 186 h. 94
3. a. 222 b. 132 c. 428 d. 243 e. 238 f. 452 g. 214 h. 332
4. a. 147 b. 238 c. 182 d. 149 e. 228 f. 127 g. 373 h. 136
5. a. 92 b. 106 c. 363 d. 96 e. 316 f. 427 g. 52 h. 94

Page 2

1. a. 84 b. 104 c. 128 d. 170 e. 72 f. 150 g. 112 h. 68
2. a. 148 b. 116 c. 152 d. 126 e. 172 f. 190 g. 158 h. 176
3. a. 321 b. 234 c. 117 d. 218 e. 319 f. 427 g. 460 h. 282
4. a. 273 b. 119 c. 237 d. 283 e. 482 f. 237 g. 417 h. 266
5. a. 170 b. 128 c. 320 d. 154 e. 432 f. 478 g. 78 h. 54



If we want to double a number such as **243**, we can double the **200**, double the **40** and then double the **3**.

1. Try doubling these numbers using this idea:

a. 136 b. 335 c. 241 d. 443

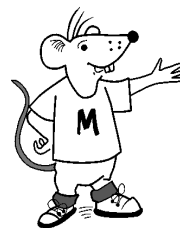
e. 164 f. 216 g. 315 h. 446

2. Try doubling these more difficult numbers using this idea:

a. 456 b. 375 c. 286 d. 394

e. 428 f. 417 g. 318 h. 572

We can do the same thing with halving.
Half of **952** is:
half of **900** add half of **50** add half of **2**.
= 450 + 25 + 1 = 476



3. Try halving these numbers using this idea:

a. 884 b. 432 c. 186 d. 428

e. 248 f. 520 g. 734 h. 282

4. Try halving these more difficult numbers using this idea:

a. 678 b. 962 c. 898 d. 638

e. 744 f. 980 g. 456 h. 586

5. Using these ideas, see how quickly you can work out these little beauties!

a. 359×2 b. 256×2 c. $948 \div 2$ d. 373×2

e. $874 \div 2$ f. $634 \div 2$ g. 623×2 h. 365×2



Don't forget, if we want to double a number such as **176**, we can double the **100**, double the **70** and then double the **6**.

1. Try doubling these numbers using this idea:

a. 361 b. 246 c. 153 d. 437

e. 355 f. 247 g. 332 h. 428

2. Try doubling these more difficult numbers using this idea:

a. 468 b. 385 c. 464 d. 428

e. 376 f. 468 g. 499 h. 587

We can do the same thing with halving.
Half of **896** is:
half of **800** add half of **90** add half of **6**.
= 400 + 45 + 3 = 448



3. Try halving these numbers using this idea:

a. 846 b. 654 c. 374 d. 468

e. 856 f. 276 g. 862 h. 264

4. Try halving these more difficult numbers using this idea:

a. 946 b. 752 c. 998 d. 634

e. 796 f. 498 g. 776 h. 954

5. Using these ideas, see how quickly you can work out these little beauties!

a. 254×2 b. 643×2 c. $356 \div 2$ d. 725×2

e. $958 \div 2$ f. $676 \div 2$ g. 778×2 h. 586×2



When we are multiplying by a number ending in **5**, we can double this number and halve the other before multiplying: **84×45** is: **$42 \times 90 = 3780$**

1. a. 48×25 b. 24×35 c. 26×45 d. 22×35
2. a. 54×15 b. 68×5 c. 82×35 d. 86×25
-

If one number in a multiplication is even, we can halve it, multiply and double the answer.

e.g. **46×14** . Halve **14** and do the calculation **$46 \times 7 = 322$**
Now double the answer \longrightarrow **644**

3. a. 22×31 b. 36×17 c. 22×24 d. 15×18
4. a. 17×16 b. 21×24 c. 36×22 d. 35×16
-

To multiply a number by **15**, multiply by **10** and add on half the answer.

e.g. **26×15** . Work out **$26 \times 10 = 260$**
Now add on half the answer. **$260 + 130 = 390$**

5. a. 24×15 b. 36×15 c. 15×66 d. 15×42
6. a. 28×15 b. 15×38 c. 15×35 d. 15×83
-

To multiply a number by **25**, multiply by **100** and then divide the answer by **4**.

e.g. **84×25** . Work out **$84 \times 100 = 8\,400$**
Now divide by **4** the answer. **$8\,400 \div 4 = 2\,100$**

7. a. 24×25 b. 36×25 c. 64×25
d. 25×86 e. 32×25
8. a. 73×25 b. 38×25 c. 25×46
d. 25×25 e. 54×25



When we are multiplying by a number ending in **5**, we can double this number and halve the other before multiplying: **72×35 is: $36 \times 70 = 2\,520$**

1. a. 26×15 b. 44×25 c. 32×35 d. 46×45
2. a. 48×35 b. 32×45 c. 54×5 d. 64×15
-

If one number in a multiplication is even, we can halve it, multiply and double the answer.

e.g. **27×16** . Halve **16** and do the calculation **$27 \times 8 = 216$**
Now double the answer **$\longrightarrow 432$**

3. a. 34×12 b. 22×11 c. 34×8 d. 18×24
4. a. 29×12 b. 33×18 c. 23×18 d. 27×16
-

To multiply a number by **15**, multiply by **10** and add on half the answer.

e.g. **32×15** . Work out **$32 \times 10 = 320$**
Now add on half the answer. **$320 + 160 = 480$**

5. a. 34×15 b. 28×15 c. 15×54 d. 15×32
6. a. 37×15 b. 15×19 c. 15×23 d. 15×75
-

To multiply a number by **25**, multiply by **100** and then divide the answer by **4**.

e.g. **76×25** . Work out **$76 \times 100 = 7\,600$**
Now divide by **4** the answer. **$7\,600 \div 4 = 1\,900$**

7. a. 48×25 b. 24×25 c. 14×25
d. 25×12 e. 16×25
8. a. 82×25 b. 93×25 c. 25×27
d. 15×25 e. 62×25



Answers

Page 1

1. a. 272 b. 670 c. 482 d. 886 e. 328 f. 432 g. 630 h. 892
2. a. 912 b. 750 c. 572 d. 788 e. 856 f. 834 g. 636 h. 1 144
3. a. 442 b. 216 c. 93 d. 214 e. 124 f. 260 g. 367 h. 141
4. a. 339 b. 481 c. 449 d. 319 e. 372 f. 490 g. 228 h. 293
5. a. 718 b. 512 c. 474 d. 746 e. 437 f. 317 g. 1 246 h. 730

Page 2

1. a. 722 b. 492 c. 306 d. 874 e. 710 f. 494 g. 664 h. 856
2. a. 936 b. 770 c. 928 d. 856 e. 752 f. 936 g. 998 h. 1 174
3. a. 423 b. 327 c. 187 d. 234 e. 428 f. 138 g. 431 h. 132
4. a. 473 b. 376 c. 499 d. 317 e. 398 f. 249 g. 388 h. 477
5. a. 508 b. 1 286 c. 178 d. 1 450 e. 479 f. 338 g. 1 556 h. 1 172

Page 3

1. a. 1 200 b. 840 c. 1 170 d. 770
2. a. 810 b. 340 c. 2 870 d. 2 150
3. a. 682 b. 612 c. 528 d. 270
4. a. 272 b. 504 c. 792 d. 560
5. a. 360 b. 540 c. 990 d. 630
6. a. 420 b. 570 c. 525 d. 1 245
7. a. 600 b. 900 c. 1 600 d. 2 150 e. 800
8. a. 1 825 b. 950 c. 1 150 d. 625 e. 1 350

Page 4

1. a. 390 b. 1 100 c. 1 120 d. 2 070
2. a. 1 680 b. 1 440 c. 270 d. 960
3. a. 408 b. 242 c. 272 d. 432
4. a. 348 b. 594 c. 414 d. 432
5. a. 510 b. 420 c. 810 d. 480
6. a. 555 b. 285 c. 345 d. 1 125
7. a. 1 200 b. 600 c. 350 d. 300 e. 400
8. a. 2 050 b. 2 325 c. 675 d. 375 e. 1 550

Mixed Time Worksheets

There are three different time worksheet tasks in this pdf. We would like you **to complete at least one** of them for this task:

- Worded problems where you need to think about the time units being used (minutes, hours, days) and answer the questions using the correct time unit.
- Converting to and from 24 hour clock notation.
- A world time zones task that you will need to do some extra investigation for. Watch this for some help
<https://www.bbc.co.uk/bitesize/topics/zvsfr82/articles/zjk46v4>

The answers to the first two worksheets are included. Please mark your work and correct any answers you may need to and give yourself a next step for this learning.

The Airport

You arrive at the airport at 1:50 pm and your flight leaves at 5:20 pm.

How many minutes will you need to wait?



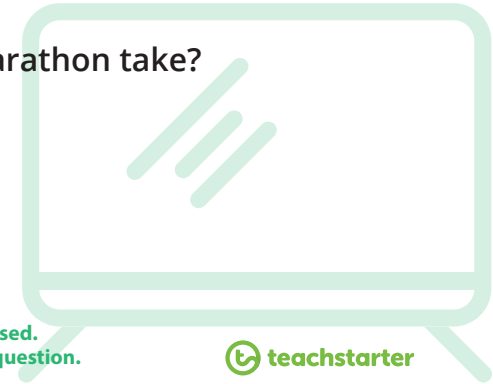
Identify which units of time are being used.
Convert the time units to answer each question.



TV Marathon

Sally decides to watch all of the Season 1 episodes of her favourite TV show, one after the other! There are eight 30 minute episodes in the season.

How many hours will her TV marathon take?



Identify which units of time are being used.
Convert the time units to answer each question.



30 Days

There are 30 days in September, April, June and November.

What are the total number of days in these 4 months?



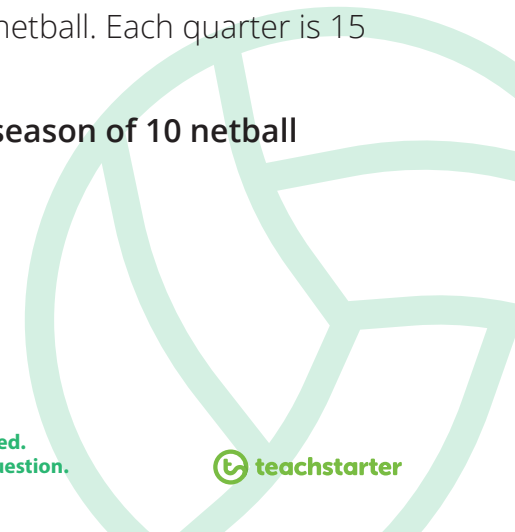
Identify which units of time are being used.
Convert the time units to answer each question.



Netball Season

There are 4 quarters in a game of netball. Each quarter is 15 minutes long.

How many hours are there in a season of 10 netball games?



Identify which units of time are being used.
Convert the time units to answer each question.



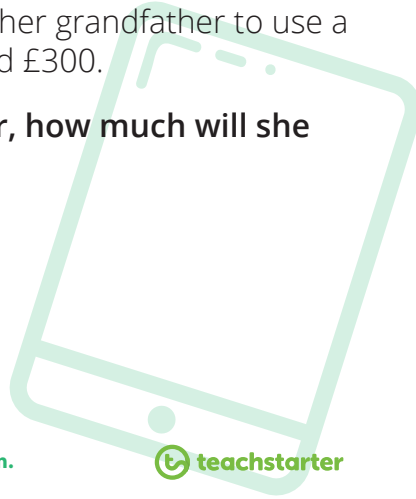
Tablet Lessons

Erica earns pocket money by teaching her grandfather to use a tablet. After 3 months, Erica has earned £300.

If she keeps helping her grandfather, how much will she earn in 1 year?



Identify which units of time are being used.
Convert the time units to answer each question.



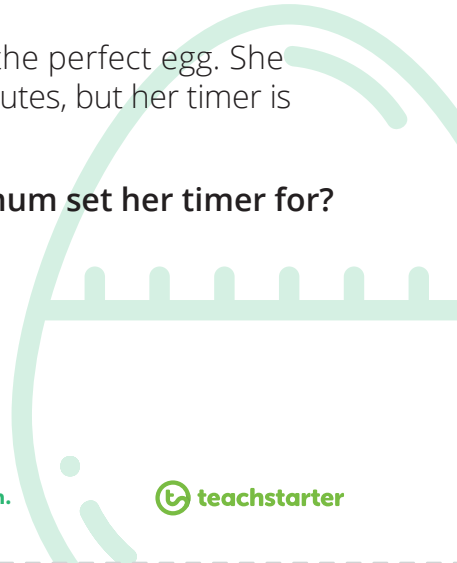
Egg Timer

Nigel's mum is having trouble boiling the perfect egg. She knows that she should cook it for 3 minutes, but her timer is measured in seconds.

How many seconds should Nigel's mum set her timer for?



Identify which units of time are being used.
Convert the time units to answer each question.



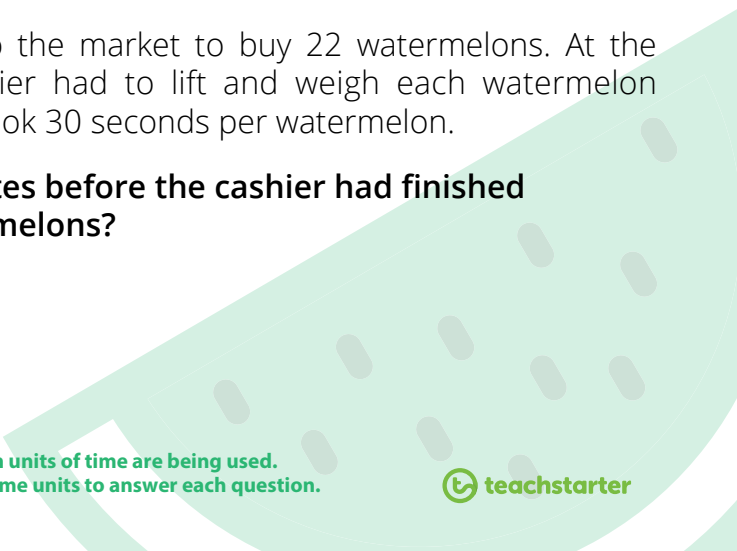
Watermelon Man

Jin Young went to the market to buy 22 watermelons. At the register, the cashier had to lift and weigh each watermelon separately. This took 30 seconds per watermelon.

How many minutes before the cashier had finished weighing all the melons?



Identify which units of time are being used.
Convert the time units to answer each question.



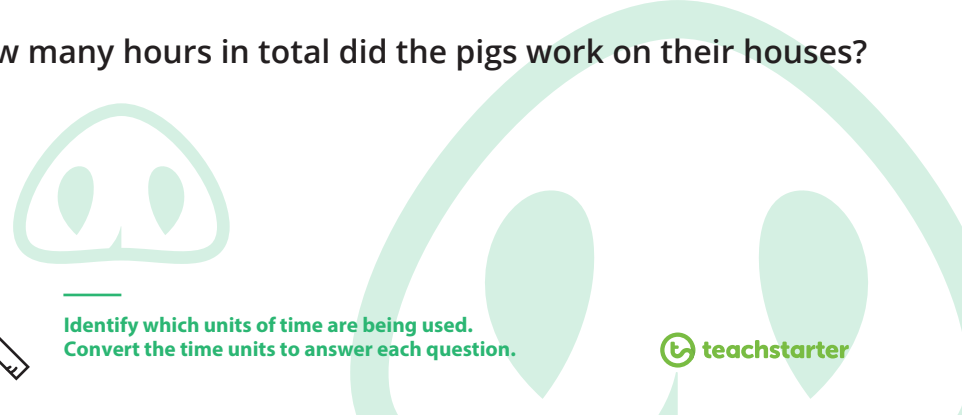
Busy Pigs

Once upon a time there were three little pigs. Each pig built a house. The straw house took 45 minutes to make, the stick house took an hour and the brick house took 75 minutes.

How many hours in total did the pigs work on their houses?



Identify which units of time are being used.
Convert the time units to answer each question.



Picking Apples

Jane picks apples all day. She earns £10 per basket of apples. She can fill 3 baskets in an hour.

If she works for 8 hours each day, how much money will she earn in two days?



Identify which units of time are being used.
Convert the time units to answer each question.



The Alien

An alien visits from a planet which uses different units of time called 'florbles'.

If one florble is the same as 4 Earth hours, how many florbles are there in an Earth day?



Identify which units of time are being used.
Convert the time units to answer each question.



Egyptian Summer

In Ancient Egypt, farmers knew that there were four 3 month seasons in a farming year. Months were measured by the moon cycle which was 28 days.

How many days were in one Egyptian summer?



Identify which units of time are being used.
Convert the time units to answer each question.



Amazing Man

Amazing Man can fly so quickly that he can fly to the moon and back in one hour. Mars is 48 times further away than the moon.

How many days would it take Amazing Man to make a return trip to Mars?



Identify which units of time are being used.
Convert the time units to answer each question.



Name: _____

Date: _____

Converting Time

1. Convert the following times from am/pm notation to 24-hour time.

- | | | | |
|-------------|-------|-------------|-------|
| a) 6:00 am | _____ | b) 2:30 pm | _____ |
| c) 10:30 pm | _____ | d) 12:07 am | _____ |
| e) 4:45 am | _____ | f) 8:42 pm | _____ |
| g) 11:30 am | _____ | h) 3:01 am | _____ |
| i) 9:15 pm | _____ | j) 7:06 pm | _____ |

2. Convert the following times from 24-hour time to am/pm notation.

- | | | | |
|----------|-------|----------|-------|
| a) 02:00 | _____ | b) 15:45 | _____ |
| c) 07:21 | _____ | d) 00:30 | _____ |
| e) 13:13 | _____ | f) 16:52 | _____ |
| g) 05:55 | _____ | h) 09:43 | _____ |
| i) 21:00 | _____ | j) 19:59 | _____ |

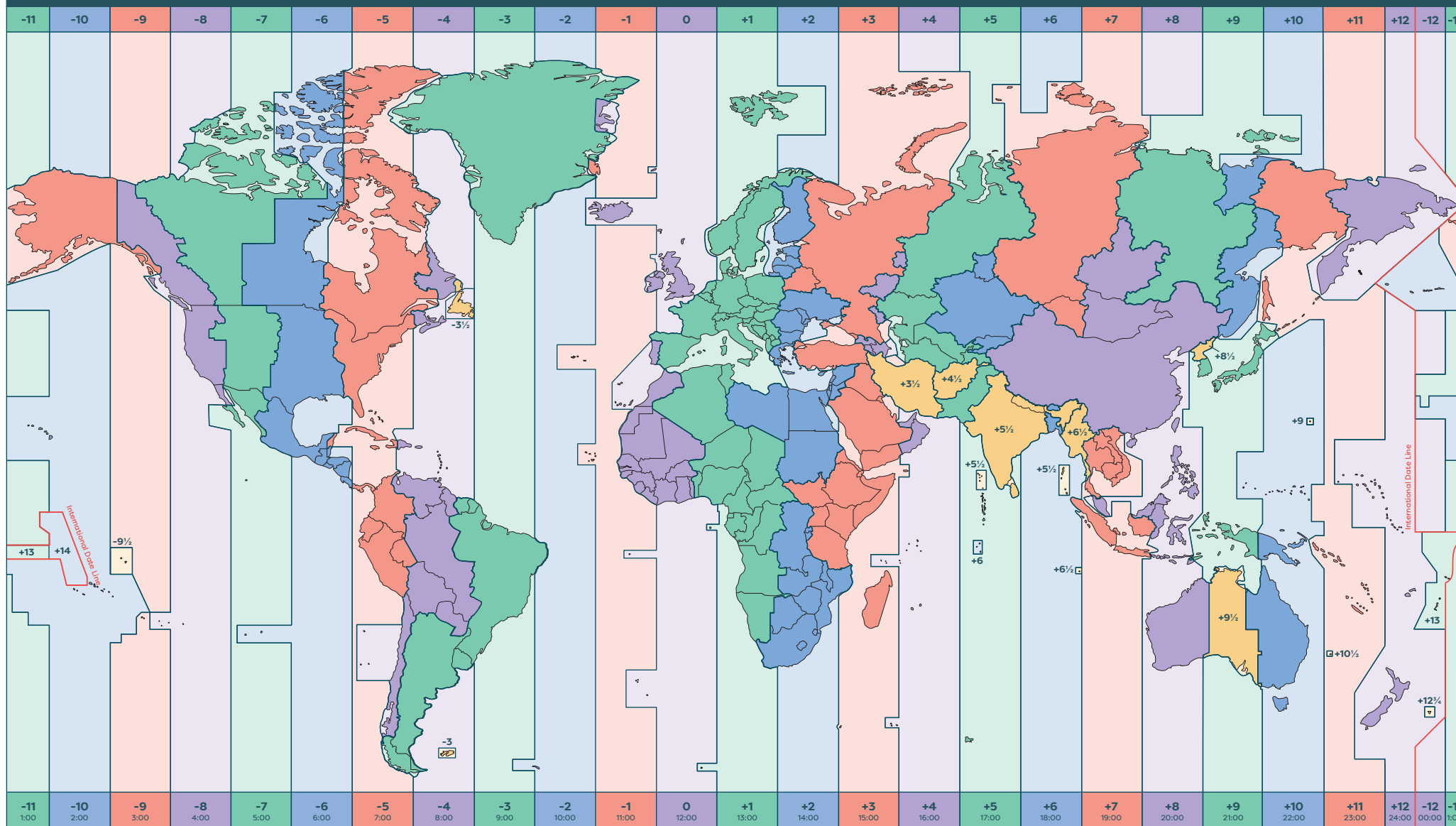
3. Circle the correct 24-hour conversion for these times.

- | | | | |
|-------------|-------|-------|-------|
| a) 6:45 pm | 06:45 | 16:45 | 18:45 |
| b) 8:08 am | 20:08 | 08:08 | 10:08 |
| c) 10:32 pm | 22:32 | 10:32 | 19:32 |
| d) 12:02 am | 12:02 | 00:02 | 24:02 |

4. Circle the correct am/pm conversion for these times.

- | | | | |
|----------|---------|---------|---------|
| a) 09:27 | 9:27 pm | 9:27 am | 7:27 am |
| b) 21:00 | 9:00 pm | 6:00 pm | 6:00 am |
| c) 14:30 | 2:30 am | 4:30 pm | 2:30 pm |
| d) 03:28 | 3:28 am | 1:28 am | 3:28 pm |

TIME ZONES WORLD MAP



Time Zone Variations

 Irregular time zones

World Time Zones

Use the time zone map to create a set of five questions (and answers!) you could ask someone to test their knowledge of geography and time zones.

Some things to think about ...

- World time works around GMT (Greenwich Mean Time, represented by the blue 0 strip in the middle). The + and - are the hours differences between GMT and the country covered. So France is in the +1 green strip and are 1 hour ahead of our time (we are in the 0 blue strip).
- The countries on the map aren't labelled so you will need to do some investigation for yourself to find the names of the countries!
- The map has colours for each time zone and the countries and areas of countries they cover. Some countries are so big, they have more than one time zone.
- You can use a computer or a phone (clock function) to check your answers.

Time Units Questions - Answers

The Airport - 210 minutes

TV Marathon - 4 hours

30 Days - 120 days

Netball Season - 10 hours

Tablet Lessons - £1200

Egg Timer - 180 seconds

Watermelon Man - 11 minutes

Busy Pigs - 3 hours

Picking Apples - £480

The Alien - 6 florbles

Egyptian Summer - 84 days

Amazing Man - 2 days

Answers

1. Convert the following times from am/pm notation to 24-hour time.

- | | | | |
|-------------|--------------|-------------|--------------|
| a) 6:00 am | 06:00 | b) 2:30 pm | 14:30 |
| c) 10:30 pm | 22:30 | d) 12:07 am | 00:07 |
| e) 4:45 am | 04:45 | f) 8:42 pm | 20:42 |
| g) 11:30 am | 11:30 | h) 3:01 am | 03:01 |
| i) 9:15 pm | 21:15 | j) 7:06 pm | 19:06 |

2. Convert the following times from 24-hour time to am/pm notation.

- | | | | |
|----------|----------------|----------|-----------------|
| a) 02:00 | 2:00 am | b) 15:45 | 3:45 pm |
| c) 07:21 | 7:21 am | d) 00:30 | 12:30 am |
| e) 13:13 | 1:13 pm | f) 16:52 | 4:52 pm |
| g) 05:55 | 5:55 am | h) 09:43 | 9:43 am |
| i) 21:00 | 9:00 pm | j) 19:59 | 7:59 pm |

3. **Circle** the correct 24-hour conversion for these times.

- | | | | |
|-------------|--------------|--------------|--------------|
| a) 6:45 pm | 06:45 | 16:45 | 18:45 |
| b) 8:08 am | 20:08 | 08:08 | 10:08 |
| c) 10:32 pm | 22:32 | 10:32 | 19:32 |
| d) 12:02 am | 12:02 | 00:02 | 24:02 |

4. **Circle** the correct am/pm conversion for these times.

- | | | | |
|----------|----------------|----------------|----------------|
| a) 09:27 | 9:27 pm | 9:27 am | 7:27 am |
| b) 21:00 | 9:00 pm | 6:00 pm | 6:00 am |
| c) 14:30 | 2:30 am | 4:30 pm | 2:30 pm |
| d) 03:28 | 3:28 am | 1:28 am | 3:28 pm |

Monster

Alesha bought a monster using only silver coins.
It cost her 45p.



There are nine different ways to pay 45p exactly
using only silver coins.
Find as many as you can.

What if the monster cost 50p?
How many different ways are there to pay now?

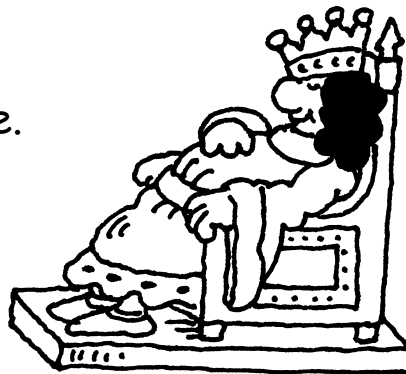
Teaching objectives

Solve mathematical problems or puzzles.
Find totals.
Work out which coins to pay.

16

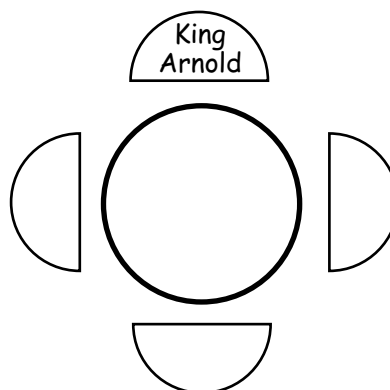
King Arnold

King Arnold sits at a Round Table.



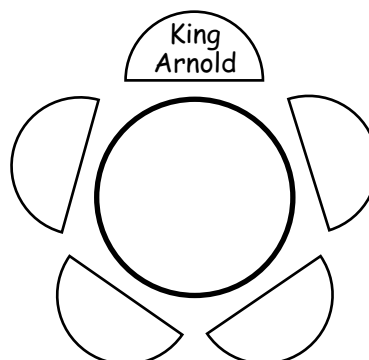
There are 3 empty seats.

In how many different ways
can 3 knights sit in them?



What if there are 4 empty seats?

In how many different ways
can 4 knights sit in them?



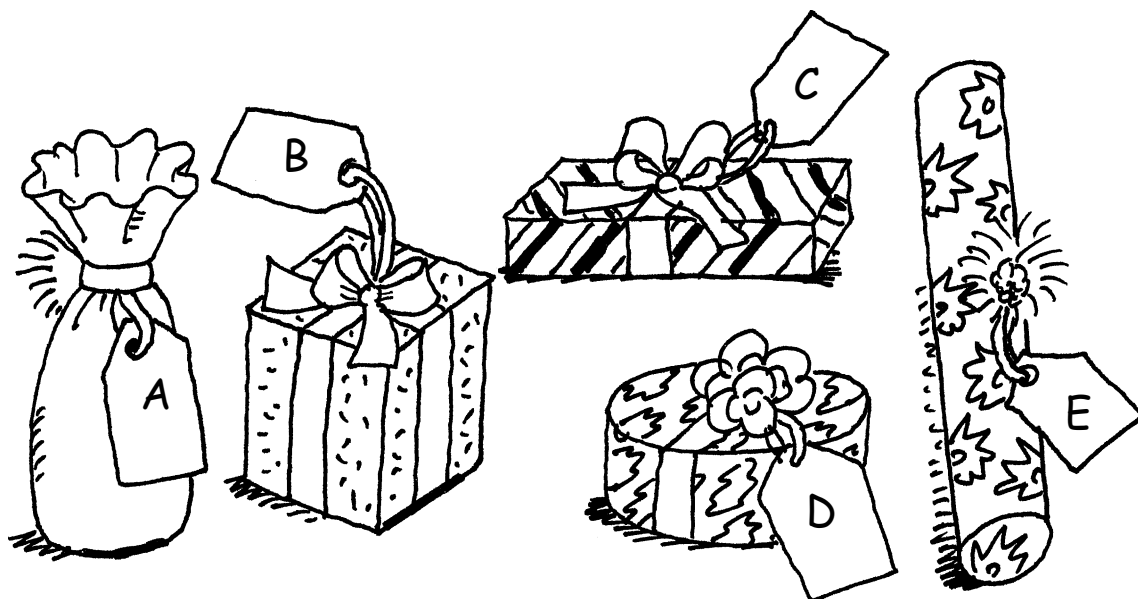
48

Teaching objectives

Solve mathematical problems or puzzles.
Solve a problem by organising information.
Explain methods and reasoning.

Presents

Gurmit paid £21 for five presents.



For A and B he paid a total of £6.

For B and C he paid a total of £10.

For C and D he paid a total of £7.

For D and E he paid a total of £9.

How much did Gurmit pay for each present?

57

Teaching objectives

Solve a given problem by organising information.
Explain methods and reasoning.

Alesha's Monster

What clues do we have?

- ★ Alesha used only silver coins.
- ★ Her monster cost 45p.
- ★ There are nine ways to pay 45p using only silver coins.

What silver coins can we think of? Start at 1p and make a list of which ones are silver...

1p X 10p ✓ £1 X
2p X 20p ✓ £2 X
5p ✓ 50p ✓

So we can use:

5p 10p 20p 50p
do we need this?

My plan is to start with the biggest coins and work down - we know there are 9 ways -

1. 20p + 20p + 5p
2. 20p + 10p + 10p + 5p
3. 10p + 10p + 10p + 10p + 5p
4. 5p + 5p + 10p + 10p + 10p + 5p
- 5.
- 6.
- 7.
- 8.
9. Keep going ☺

How many different ways can three knights sit at King Arnold's table?

To help me solve this task, I'm going to use drawings, beads/coins/pebbles/Legos etc, and a grid for my results.



Use something to represent the three different knights - I'm using coins - 5p, 20p + 2p

I'm using a grid to record my results -

Seat 1	Seat 2	Seat 3
5p 2p	20p 5p	2p 20p

Hints

- ★ Watch out for duplicate seating patterns - if you are writing them on a grid, you should see them!
- ★ You will need to be watching when you do 4 empty seats - use that grid!

Gurmit's presents.

Look at the clues we have:

- ★ He paid £21 for 5 gifts
- ★ We know how much different combinations of gifts cost -

$$\begin{aligned} A+B &= £6 & B+C &= £10 \\ C+D &= £7 & D+E &= £9 \end{aligned}$$

This problem needs a systematic approach - you need to work through all the possible answers to get to the correct one. We are going to use some algebra to do this ☺

Let's start with $A+B = £6$

So we know A can be:

£1, £2, £3, £4 or £5

Let's try $A = £5$...

If $A+B = £6$ then $B = £1$

If $B+C = £10$ then $C = £9$

$C+D = £7$ oh C is £9...

$D+E = £9$ this can't be right!

Let's try $A = £4$...

If $A+B = £6$ then $B = £2$

If $B+C = £10$ then $C = £8$

If $C+D = £7$ oh again...

Keep trying!

- ★ Hint - remember the total cost of the gifts!

Answer sheet

Gurmit's Presents

Gurmit paid £2, £4, £6, £1 and £8 for the five presents.

King Arnold's Seats

Three knights can sit with King Arnold in 6 different ways.

Four knights can sit with King Arnold in 24 different ways.

Alesha's Monster

Alesha can use these coins to pay 45p:

two 20p and one 5p one 20p

two 10p and one 5p one 20p

one 10p and three 5p one 20p and five 5p

four 10p and one 5p

three 10p and three 5p

two 10p and five 5p

one 10p and seven 5p

nine 5p

There are 13 different ways to pay 50p using only silver coins.

First add 5p to each of the ways for 45p

The other four possibilities are:

two 20p and one 10p

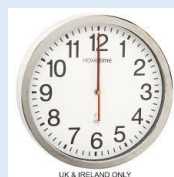
one 20p and two 10p

five 10p

one 50p

Revision sheet - First Level *

1. Choose two numbers to make 17
2. $6 + \square = 12$
3. 9 crabs on the rock and 7 in the pool. How many crabs **altogether**?
4. There are 3 dogs in each garden. How many dogs in 5 gardens?
5. 15 subtract 6 =
6. Put these numbers in order, largest first: 17, 35, 99, 103
7. What is half of 12?
8. Complete this compass:
9. Double 6
10. 14 divided equally between 2 =
11. What are four lots of three?
12. $\frac{1}{4}$ of 16 =
13. Complete this sum: $\underline{\quad\quad} + 8 = 20$
14. $11 + 3 + 5 =$
15. $2 \times 7 = 7 \times \underline{\quad\quad}$
16. Complete this pattern: 20 , 18 , 16 , , , 10 , 8
17. What month comes after October?
18. What time does it say on this clock?
19. 8 less than 19 =
20. 16 plus 7 =

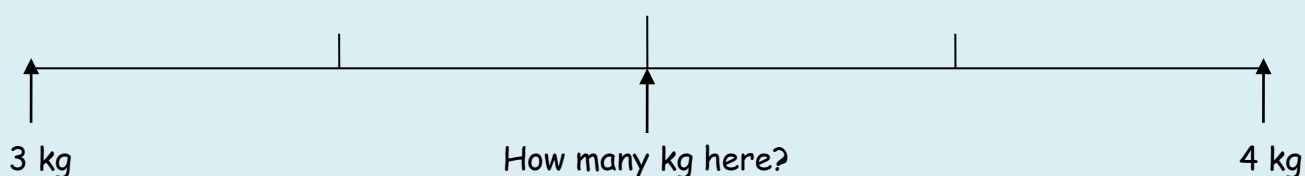


Consolidation work – First Level **

1. Round 16 to the nearest 10
2. What is 499 rounded to the nearest 100?
3. Round 501 to the nearest 100
4. 10×6 equals?
5. If I spend 25p and pay with a £1.00, how much change will I receive?
6. 50 divided by 5 equals?
7. 27 divided by 9 equal groups is?
8. Add 68 and 19
9. Add 73 and 27
10. Take away 21 from 60
11. Subtract 1 from 1000
12. Which is heavier: a dictionary or a homework diary?
13. $3 \times 9 =$
14. $100 - 39 =$
15. $50 - 21 =$
16. Double 24
17. Double 400
18. Half 36
19. Find $\frac{1}{2}$ of 20
20. What is a $\frac{1}{3}$ of 18?

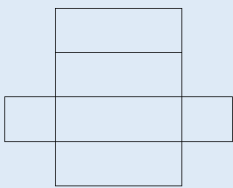
Consolidation work – First Level ***

1. Write in words: 97
2. Write in figures: five hundred and ninety four
3. Circle the numbers that have 2 tens
725, 52, 12, 527, 257, 205
4. Put these numbers in order starting with the largest
156, 146, 191, 176, 100, 172
5. Fill in the missing number to make the sum correct
 $241 = 200 + \underline{\quad} + \underline{\quad}$
6. How many seconds in one minute 10 seconds?
7. Find $\frac{1}{3}$ of 93
8. $8 \times \underline{\quad} = 0$
9. $81 \div 10 = \underline{\quad}$
10. Round 919 to the nearest 10
11. What is half of 100?
12. What is double 33?
13. Circle the fractions equivalent to $\frac{1}{2}$: $\frac{2}{6}$, $\frac{9}{18}$, $\frac{5}{10}$, $\frac{9}{11}$, $\frac{2}{4}$, $\frac{10}{20}$
14. Tia wants to buy a fruit bar. She has 66p but she needs another 32p. How much does the fruit bar cost?
15. $7 \times 3 = 7 + 2 + \underline{\quad}$
16. Five cats are given 35 treats to share equally. How many treats do they get each?
17. The Circus show starts at 7.30pm and finishes at 9.00pm. How many minutes does the show last?
18. Draw coins to make 67p.
19. Carly bought 2 chews for 13p each, and 3 orange for 32p each. How much did she spend altogether?
- 20.

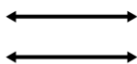


Consolidation worksheet - Second Level *

1. Using the digits 7, 4, 9, and 6, what is the smallest number you can make?
2. There are 120 pupils in a school. They need to be put into 4 equal groups for the athletics tournament. How many children would be in each group?
3. What value is the 5 in the number 4163.6?
4 hundreds 4 tens 4 ones 4 tenths
4. Round 5771 to the nearest hundred.
5. Order the numbers, starting with the smallest number. 4308, 4093, 4398, 4038
6. Find $\frac{3}{4}$ of 24
7. A film starts at 1845 hours and lasts for 2 hours 15 minutes. What time will the film end?
8. Write the digital time for quarter past 7 in the morning.
9. I have £10. I buy 3 cans of juice, each costing 80p and a sausage roll, costing £1.25. How much change would I get from £10?
10. What is the perimeter of a square with sides of 7cm?
11. Write 14:45 hours in digital time, using the terms am/pm.
12. I measure 90 degrees, what angle am I?
13. What do we call an angle that is 180 degrees?
14. How many millimetres in 3cm?



15. Which 3D shape will this 2D net make when folded up?
16. Convert $\frac{4}{10}$ into a decimal.
17. What is 0.7 as a fraction?
18. $0.5 \times 10 =$
19. Complete the sequence: 5.8, 5.9, _____, _____, 6.2, 6.3, _____



20. Are these lines parallel?

Consolidation work - Second Level **

1. Write in words: 200,790.
2. Write in figures: sixty five thousand, and five.
3. Mentally, multiply 16 by 7.
4. Mentally, divide 4800 by 8.
5. Multiply 279 by 100.
6. Divide 279 by 10.
7. $370 + 410$
8. $750 - 140$
9. $\frac{1}{3}$ of £93
10. Find half of 1600.
11. I have £10. I spend £8.29. How much change do I get?
12. Write 8% as a decimal.
13. $\frac{4}{8}$ of 64
14. Write the equivalent fraction in eighths for $\frac{3}{4}$.
15. Write 45% as a decimal.
16. Write $\frac{7}{100}$ as a decimal.
17. Write $\frac{7}{10}$ as a decimal.
18. Write 0.09 as a fraction.
19. Write 0.5 as a fraction.

20. List the notes and coins to make £14.83 in the easiest way possible.

Consolidation work 20 Second Level ***

1. $6.5 + 8.4 + 11.9$
2. $18.0 - 3.6 - 2.9$
3. $637 \div 700$
4. $996 \div 30$
5. 38×400
6. 0.068×1000
7. $72 \div 100$
8. $\frac{6}{8}$ of £16.64
9. 30% of 90
10. Jeans cost £56 to buy. There is a 20% sale on today. How much will they cost?
11. $55\text{g} = \text{_____ Kg?}$
12. $-20 + 7$
13. $-18 - 23$
14. Solve $7n - 4 = 59$
15. Order these from the smallest to the biggest:
 $0.77, 26/100, 43\%, 5/6, 30\%$
16. What are the factors of 63?
17. Add together 5381 and 2764
18. Subtract 4327 from 4298
19. Draw a shape which has four lines of symmetry.
20. If a diameter of a circle measures 23cm, what would the radius measure?

Revision sheet - first level one star

1. Any two numbers that add up to 17 😊
2. 6
3. 16
4. 15
5. 9
6. 103, 99, 35, 17
7. 6
8. Whoops! There's no compass to complete, sorry! Do you know the four main points on a compass? It's North, East, South and West - I remember the order by using the saying Never Eat Shredded Wheat!
9. 12
10. 7
11. 12
12. 4 - a quarter is half and half again, so half of 16 is eight and half of 8 is 4
13. 12
14. 19
15. 2 because = means the same on both sides! It doesn't mean the answer 😊
16. 20, 18, 16, 14, 12, 10, 8
17. November
18. 6 o'clock
19. 11
20. 23

Revision sheet - First level two stars

1. 20
2. 500
3. 500
4. 60
5. 75p
6. 10
7. 3
8. 87
9. 100
10. 39
11. 999
12. A dictionary will be heavier than any jotter 😊
13. 27
14. 61
15. 29
16. 48
17. 800
18. 18
19. 10
20. 6 - finding one third means sharing into 3

Revision sheet - first level three stars

1. Ninety seven
2. 594
3. 725 and 527
4. 191, 176, 172, 156, 146, 100
5. $241 = 200 + 40 + 1$ or any other sum that adds up to 241 😊
6. 70 seconds
7. 31 finding a third means dividing by three
8. 0 because anything $\times 0 = 0$
9. $81 \div 10 = 8.1$ when we divide by ten, all the digits move across one column on a place value grid to the right
10. 920
11. 50
12. 66
13. $9/18, 5/10, 2/4, 10/20$
14. 98p
15. 12 - remember that the = sign means a balance not the answer
16. 7 treats
17. 90 minutes
18. Any correct combination of coins to make 67p
19. £1.22
20. 3.5 kg or $3 \frac{1}{2}$ kg

Revision sheet - second level one star

1. 4,679
2. 30 - if you know $12 \div 4 = 3$, then if you do $120 \div 4$, the answer will be ten times bigger, so 30
3. Oops! This question is a typo I didn't see ... you'll never find the value of 5 in a number that doesn't have a 5 in it - sorry children! I think it means the 4 in which case it's 4 thousand.
4. 5800
5. 4038, 4093, 4308, 4398
6. 18 - to find $\frac{3}{4}$ of a number, you can halve it and halve it again to get quarters, so 24 halved is 12 and half of that is 6, so 6 is $\frac{1}{4}$ of 24. To find three quarters, you need to multiply your answer for one quarter by three, so $6 \times 3 = 18$
7. 2100 hours, or 9pm
8. 07:15am or 7:15am
9. £6.35 - first work out how much is spent - juice is $80p \times 3 = £2.40$, plus sausage roll for £1.25 = £3.65 together. Then work out your change from a £10 note - you could do this by counting up on a number line.
10. 28cm - perimeter is adding up the length of the sides of a shape. A square has equal sides so $7cm \times 4$.
11. 2.45pm
12. A right angle.
13. A straight line.
14. 30mm - 10mm in 1cm
15. It will make a rectangular prism.
16. 0.4 - on a place value grid, the column after the decimal point is the tenths, so $4/10$ is written as 0.4
17. $7/10$ - see the answer to 16.
18. 5 - multiplying by 10 moves digits one column to the left in a place value grid.
19. 5.8, 5.9, 6 or 6.0, 6.1, 6.2, 6.3, 6.4
20. Yes they are parallel lines. **Parallel lines** are **lines** which are always the same distance apart and never meet. We use arrowheads to show **lines** are **parallel**.

Revision sheet – second level two stars

1. Two hundred thousand, seven hundred and ninety.
2. 65,005
3. 112 - I would do $10 \times 7 = 70$ and $6 \times 7 = 42$ and add them to get 112
4. 600 - I would do $48 \div 8 = 6$ then 4,800 is 100 times bigger than 48 so $6 \times 100 = 600$
5. 27,900
6. 27.9 - when dividing by ten, the digits in your number are moving one column right on a place value grid
7. 780
8. 610
9. £31 - you are dividing £93 by three to find one third
10. 800
11. £1.71
12. 0.08 - remember a percentage is out of 100 so 8% is 8/100 and the hundredths column in place value is two to the right of the decimal point, so 0.08
13. 32 - there are two ways to go around this. You can simplify the $\frac{4}{8}$ to be $\frac{1}{2}$ and then just halve 64 to get to 32. Or you can work it out by dividing 64 by 8 to find $\frac{1}{8}$: $64 \div 8 = 8$, then $\times 4$ to get $\frac{4}{8}$, so $8 \times 4 = 32$
14. $\frac{6}{8}$ - to convert fractions, you have to remember that whatever you do to the denominator, you do exactly the same to the numerator, in this case $\times 2$
15. 0.45 - it's 45/100 - see answer to number 12.
16. 0.07 - see answer to number 12
17. 0.7 - say the fraction out loud as seven tenths and you know the first column after the decimal point is the tenths column, so 0.7
18. $\frac{9}{100}$ - think about where the digit 9 is in 0.09 - it's in the hundredths column, so it's nine hundredths.
19. $\frac{1}{2}$ or $\frac{5}{10}$ which can be simplified to $\frac{1}{2}$ by dividing the numerator and the denominator by 5.
20. £10, £2, £2, 50p, 20p, 10p, 2p, 1p - start big, work down!

Answers to Revision sheet – Second level three stars

1. 26.8
2. 11.5
3. 0.91
4. 33.2
5. 15,200
6. 68
7. 0.72
8. £12.48
9. 27
10. £44.80 – 10% of £56 is £5.60, double that for 20% and take away from original £56 to get new price.
11. 0.055kg
12. -13
13. -41
14. $n = 9$ $7n - 4 = 59$ add 4 to each side of the equation to get $7n = 63$
which is the same as $7 \times n = 63$
15. Convert them all to decimals or fractions or percentages to do this -
I used decimals so - 0.26 (26/100), 0.3 (30%), 0.43 (43%), 0.77 and 0.83 (5/6)
– to convert a fraction to a decimal, you divide the numerator by the denominator so in this case $5 \div 6$. You may need a calculator to do these!)
16. 1, 3, 7, 9, 21, 63
17. 8,145
18. -29
19. A square is a shape with four lines of symmetry
20. 11.5cm – the diameter of a circle is the length from one side of a circle to the other through the middle point. The radius is the length from the middle point to the side of the circle, so if you know the radius, it's x2 to get the diameter.

