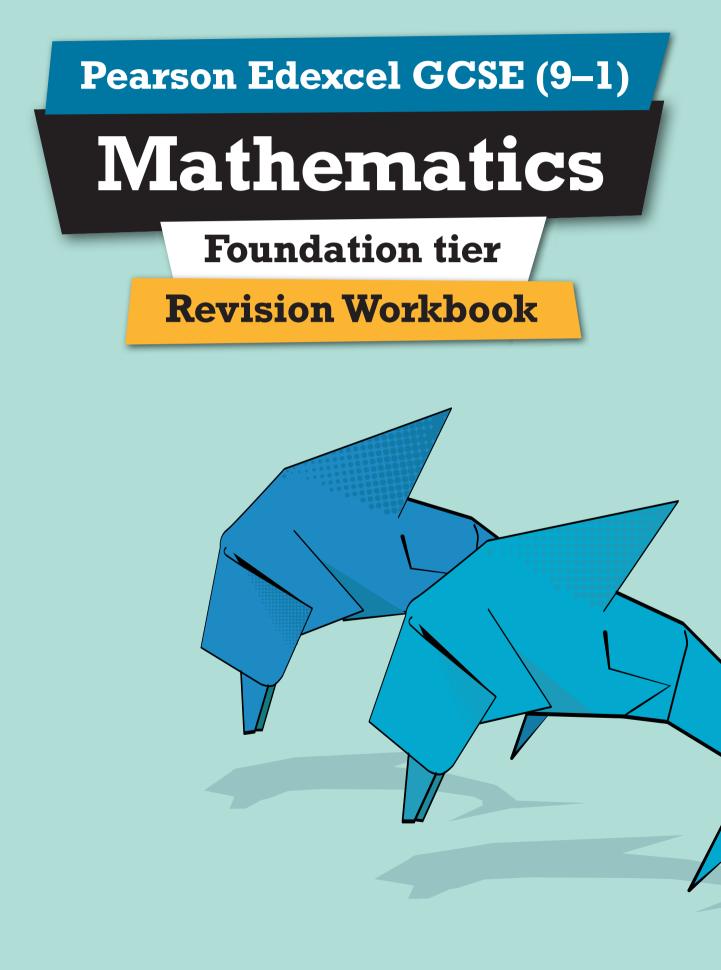
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# **REVISE PEARSON EDEXCEL GCSE (9–1) Mathematics**

### Foundation

# REVISION WORKBOOK

### Series Consultant: Harry Smith

Author: Navtej Marwaha

### Get the inside track

Look out for these features to help turbo-charge your revision:



These questions cover skills and techniques that real students have struggled

with in recent exams. Check out the corresponding *Revision Guide* page for more top tips and things to watch out for.



We've picked 25 of the hottest topics. These pages contain key skills and knowledge that you're likely to need in your upcoming exams. If you're pushed for time you might want to practise these first.

**Guided** Where you see this icon, part of the answer has been completed for you.



You will have to use problem-solving skills throughout your exam.

Boxes with this icon will highlight problem-solving skills and strategies to help you stay ahead of the pack.



There is some tough material in GCSE Maths. We've identified 25 of the trickiest topics. You might want to save these topics for days when you have a bit more time to concentrate on them.



This scale tells you how difficult each question is.

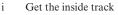
#### A small bit of small print

Pearson Edexcel publishes Sample Assessment Material and the Specification on its website. This is the official content and this book should be used in conjunction with it. The questions have been written to help you practise every topic in the book. Remember: the real exam questions may not look like this.



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**PROBABILITY & STATISTICS** 

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		Place value
Target grade	1	(a) Write the number nine thousand, three hundred and fifty-one in figures.
Guided		9 (1 mark)
/		(b) Write the number 4196 in words.
		Four thousand, one hundred and (1 mark)
		(c) Write down the value of the 5 in the number 95872.
The second and		5 (1 mark)
Target grade	2	Write down the number twelve thousand and sixty in a place value table.
Guided		Hundreds Units
Target		(2 marks)
grade _	3	Write these numbers in order:Start with the lowest number.(a) 165, 146, 127, 49, 169
		(b) 7429, 7249, 7942, 7924, 7028
Target		(1 mark)
grade _	4	Write these amounts in order: (a) £63452, £63593, £65601, £63004, £62400
		(b) £1.20, 63p, £1.02, 36p, £1.12 Convert the pounds into pence and then put the numbers in order.
Target		(1 mark)
grade	5	Peter wrote down his weekly pocket money in order. £1.80, £1.95, £2.10, £2.01, £2.45, £2.50 Is he correct?
		(1 mark)
Target grade	6	Anton is buying supplies for a charity event. A pack of 50 paper cups costs £1.89. A pack of 10 paper plates costs 49p. Anton has £15 to spend. Anton buys 250 paper cups and spends the rest on paper plates. How many paper plates can he buy?
		110.1. many puper plates call lie oug.

NUM	BE			hted Ma Nearly		🗌 Nail	ed it! [	
		Νε	egati	ive n	um	bers		
Target grade	1	(a) Write the following nu	mbers in or	der:				
		6 -X1 -4			Start	with the lowe	st number.	
<b>∑</b> Guided ∕		—11					)	(1 mark)
		(b) Work out				(	=+	
		(i) $-9 + 7 = \dots$	(1 ma	<b>rk)</b> (ii)	-74	= =	=	(1 mark)
		(iii) $-6 - 4 = \dots$	(1 ma	rk) (iv)	-10 - + 6	6 =		(1 mark)
Target grade	2	(a) Work out	$+ \times + = +$	- + × - =	= ×	+ =	$\times - = +$	
Guided		(i) $-7 \times 2 = -14$	(1 ma	<b>rk)</b> (ii)	63 ÷ -9 =	=		(1 mark)
		(iii) $-6 \times -4 = \dots$	(1 ma	<b>rk)</b> (iv)	$-42 \div -6$	6 =		(1 mark)
			$+ \div + = +$	· + ÷ - =	: — — ÷	+ =	$\div - = +$	
Guided	3	On a certain day in Mosco has dropped by 9°C. By 9 it has dropped a further 8° (a) 6 pm°C (1 mark (d) What was the overall of	pm it has dr PC. Find the <b>k)</b> (b) 9 pr	opped a furt temperature n°C	ther 5°C an e at (1 mark)	d by 12 midn (c) 12 midni	ight ght°C.	(1 mark)
		Temperature at 12 noon =	= 7 °C					
		Temperature at 12 midnig	ht =					
		Drop in temperature = $7$	–	. =	°C			(1 mark)
Target grade	4	The table gives information cities during one year.	n about the	highest and	lowest temp	peratures in fi	ve	
			London	New York	Moscow	New Delhi	Lisbon	
		Highest temperature (°C)	30 $-8$	$\frac{28}{-10}$	25 -15	40	29	
		Lowest temperature (°C)		1	-13	-7	-3	
		(a) What is the difference highest temperature in the lowest temperature	1 New Delhi e in New Yo	and	of New tempera	own 'highest te Delhi – lowest ature of New Yo ber to include swer.	ork'.	(1 mark)
		(b) Which city recorded th lowest temperature?	he biggest di	ifference bet	ween the hi	ghest and		
		(1 m)						

in Lisbon and the lowest temperature in Moscow is -10 °C.

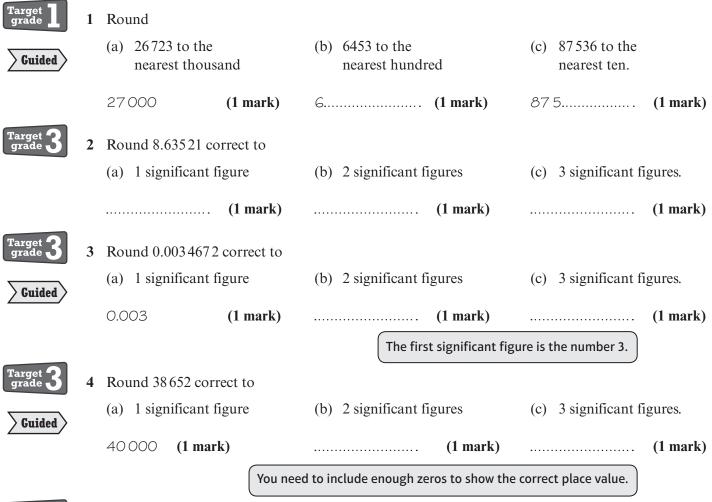
(c) Is Viktor correct? Give a reason for your answer.

..... (1 mark)

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# **Rounding numbers**



Target 3

5 In her science class, Anjali measured the mass of some objects made from different types of materials. Here are her results.

Material	Wood	Plastic	Metal	Rubber
Mass m (g)	20.356	265.800	168.240	127.500
W/nite_d_energy_thee	0.1			

Write down the mass of the

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- (a) wood to 3 significant figures
- ..... (1 mark)
- (c) metal to 2 significant figures
- ..... (1 mark)
- (b) plastic to the nearest hundred grams
- ..... (1 mark)
  - (d) rubber to the nearest ten grams.
  - ..... (1 mark)
- 6 Jason is weighing some objects on an electronic scale.
  - 0.02346

He writes the answer as 0.023 g correct to 3 significant figures. Is he correct? Explain your answer. State whether Jason is correct and write some words explaining why. You could write the correct answer, or explain what Jason has done wrong.

Which number is the first significant figure?

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**Adding and subtracting** 

Target grade	1	Work out		
Guided		(a) $842 + 158 + 23$	(b) 741 – 164	
		842	$\mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A}$	
		158 + 23	- <u>164</u> 7	
		3		
		(1 mark	k) (	(1 mark)
Target grade	2	Work out		
		(a) 7263 + 915	(b) 7629 – 7452	
		(1 mark	k) (	(1 mark)
Target grade	3	Kevin buys some items from a shop.		
		He buys a box of chocolates costing $\pounds 3.65$ a $\pounds 1.65$ each.	and three rolls of wrapping paper costing	
<b>Guided</b>		He gives the cashier a £20 note.	Convert the pounds into pence.	
		How much change should he receive?	Convert the pounds into pence.	
		365 + 165 + 165 + 165 =		
		2000 =		3 marks)
Target grade	4	There are 52 children on the pirate ship at a	a fairground.	
		When the pirate ship stops, 39 children get of	off and means subtract and	
		28 children get on. How many children are now on the pirate sh	ship?	
		2 1	-	
			You have to show your working. Do not just write down a number.	
				2 marks)
Target grade	5	Part of a receipt is missing.		
		David pays £5 and receives 50p change.	Problem The easiest way to work out	
		David works out that the coffee cost £2.49.	whether David is correct is to	
		Slice of cake 95p	calculate the cost of a cup of coffee. Remember show your working and write a conclusion to a	
		Mug of tea £1.49 Cup of coffee	the question.	
		Capor conce		
		Is he correct? Explain your answer.		

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		Multiplying and dividing	
Target grade <b>]</b>	1	Work out (a) $83 \times 23$ (b) $972 \div 4$ (c) $4 \times 2 = 8 \text{ so } 4$ (c) $972 \div 4$ (c) $4 \times 2 = 8 \text{ so } 4$ (c) $972 \div 4$ (c) $4 \times 2 = 8 \text{ so } 4$ (c) $972 \div 4$ (c) $100 \times 2 = 8 \text{ so } $	(2 marks)
Target grade	2	Tins of biscuits come in three sizes. There are 28 biscuits in the small size and four times as many in the medium size. In the large size there are seven times as many as in the small size. How many biscuits are in the (a) medium size (b) large size?	(2 marks)
Target grade	3	(1 mark) A shop sold 42 boxes of flowers. Each box contained 18 flowers. Work out the total number of flowers sold. Show all of your working writing figures neatly s can be easily read.	-
Target grade	4	Work out (a) $962 \times 45$ 962 (b) $442 \div 13$ (b) $442 \div 13$ (c) $333442$ (c) $333442$	(3 marks)
Target grade	5	Work out $962 \times 4$ 0(2 marks)Dylan packs tomato tins into boxes. Each box holds 36 tomato tins.How many boxes will he need to pack(a) 180 tins(b) 324 tins?	(2 marks)
Target grade	6	(1 mark) Sam bought five boxes of chocolates. Each box contained 25 chocolates. Sam ate 30 chocolates himself. He then shared the remaining chocolates between himself and his four friends. (a) How many chocolates did Sam buy? (b) How many chocolates did each of Sam's friends receive?	(1 mark)
		(1 mark)	(2 marks)

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# **Decimals and place value**

Target grade	1	(a) Write down the value of the 7 in	9.74			
			·····		(1 mark)	
		Remember the first number after the decimal point is a tenth and then a hundredth and so on.				
		(b) Write down the value of the 8 in	0.684			
		(c) Write down the value of the 4 in			(1 mark)	
					(1 mark)	
Target grade	2	Write the following numbers in order 3.2 6.4 6.2 12.8	r, smallest first: 1.4			
					(1 mark)	
Target <b>]</b>	3	Write the following numbers in order           0.61         0.611         0.613         0.6           0.610         0.611         0.613         0.600		Place zeros on these numbers so they all have the same number of decimal places.		
		0.050			(1 mark)	
Target grade	4	Write the following numbers in order	r, smallest first:			
		0.73 0.7 0.725 0.778				
					(1 mark)	
Target 2	5	Using the information that $5.7 \times 43$	= 245.1 write down the v	alue of		
Guided		(a) $57 \times 43 =$ 245.1 × =	5.7 has been multiplied by 245.1 needs to be multipli		(1 mark)	
		(b) 5.7 × 4.3 = 245.1 ÷ =	5.7 is unchanged and 43 h 245.1 needs to be divided		(1 mark)	
		(c) $245.1 \div 57 =$		7 has been multiplied	(1 mark)	
		$\begin{array}{l} (c) & 245.1 \div 57 = \\ 43 \div \dots = \dots \end{array}$	245.1 is unchanged and 5. by 10. 43 needs to be divid		(1 mark)	
Target 2	6	Sammy writes down the following in	his exercise book			
		$435.2 \div 13.6 = 320$	Write 'yes' or 'no' and give working to explain your ar	-		

He uses the information to say that  $32 \times 136 = 4352$ Is he correct? Explain your answer.

writing it as a sentence.



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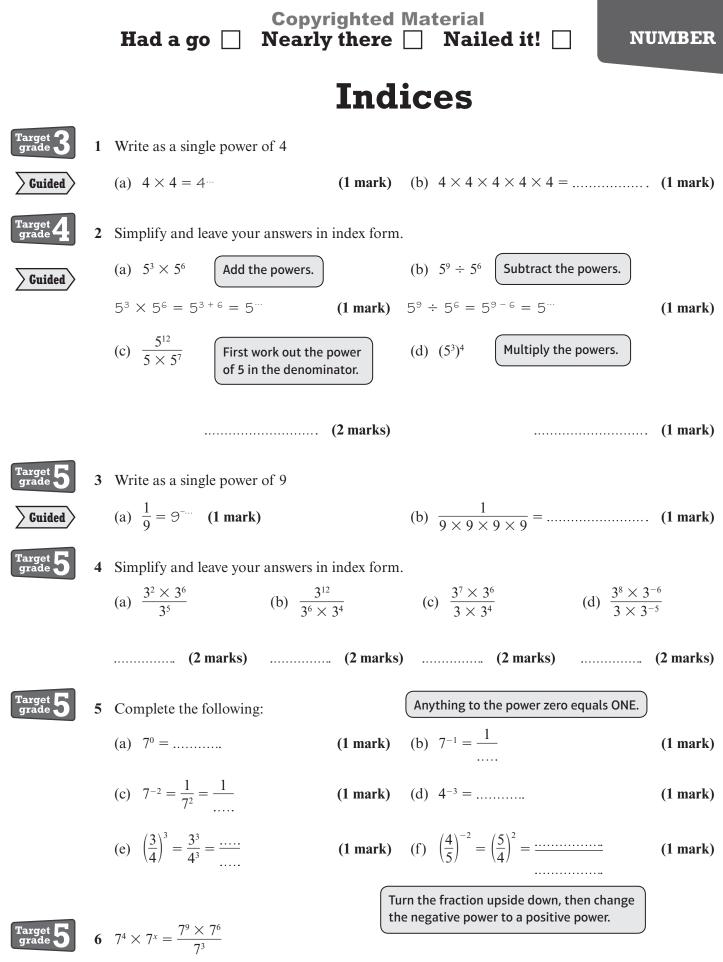
#### **Operations on decimals** Work out (a) 4.23 + 10.4(b) 84.7 - 9.34 Guided 84.70 4.23 Make sure all the decimal points 9.34 + 10.40 are lined up and then write zeros in the spaces so that all .....3 <u>.....</u> the numbers have the same number of decimal places. (2 marks) (2 marks) (c) $7.32 \times 16$ (d) $0.47 \times 0.07$ First work out 732 imes 16. In total there are 2 decimal places in the calculation, so put 2 decimal places in your answer. ...... (2 marks) (e) $83.4 \div 6$ (f) $81.9 \div 1.3$ 6)83.4 ...... (2 marks) 2 A coach ticket to the zoo costs £7.85. A teacher buys 36 of these tickets for his class. What is the total cost of the 36 tickets? 785 X<u>36</u> In total there are 2 decimal places in the calculation, so put 2 decimal places in your answer. Remember to write in the units. Total cost = $\pounds$ ..... (2 marks) 3 Charles repairs computers. He charged a customer £123.20 to repair a computer. It took him 8 hours to repair the computer. How much did he charge for one hour? £..... (2 marks) 4 Kitty buys hot chocolate sachets. For a longer question like > Problem There are 14 hot chocolate sachets in solved! this, it's a good idea to plan a small box. your strategy. Calculate A small box costs £3.49. 1. number of days in a four-week period Kitty uses 3 hot chocolate sachets each day. 2. number of sachets used in a Work out the how much Kitty spends on hot four-week period 3. number of small boxes used in a chocolate sachets in a four-week period. four-week period 4. total cost of those boxes. £..... (4 marks)

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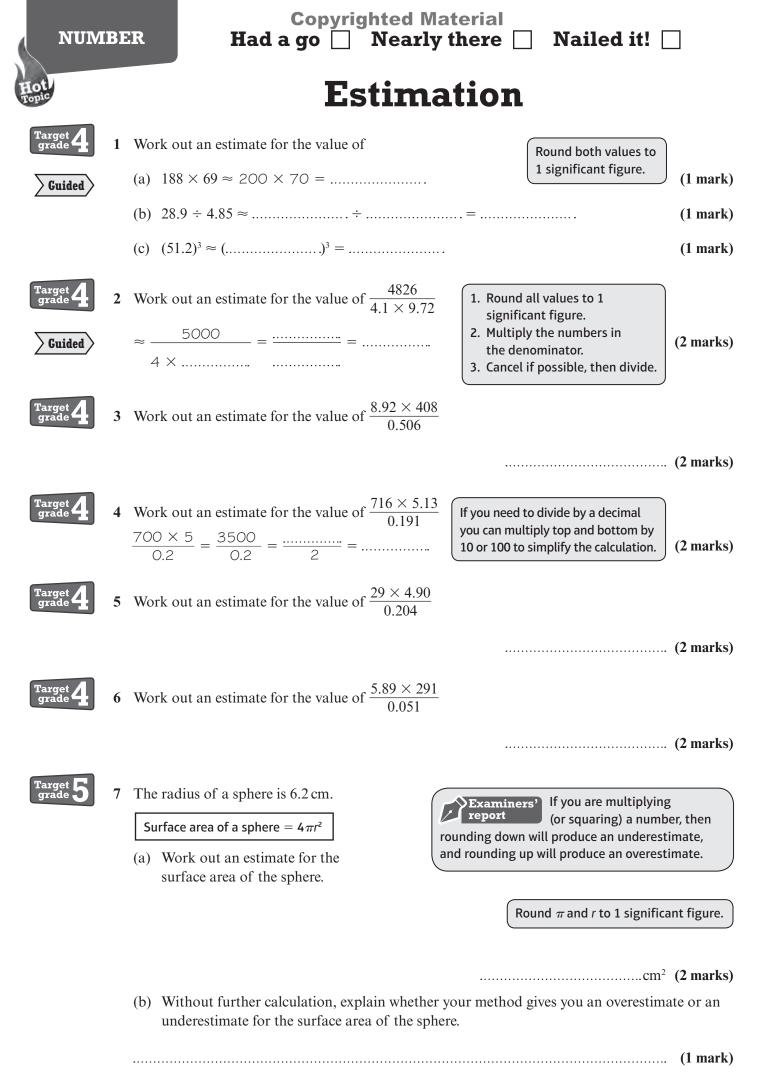
# Squares, cubes and roots

Target grade	1	Work out				
		(a) $4^2$	(b) $2^3$		(c) $\sqrt{81}$	
		(1 mark)		(1 mark)		(1 mark)
		(d) $\sqrt{64}$	(e) $\sqrt[3]{64}$		(f) $\sqrt[3]{8}$	
		(1 mark)		(1 mark)		(1 mark)
		(g) $\sqrt[3]{27}$	(h) $\sqrt[3]{-64}$		(i) $\sqrt[3]{-125}$	``´´
		(1 mark)		(1 mark)		(1 mark)
		(1 mark)		(1 mark)		
Target grade	2	Write down				
		(a) the square of 9		(b) the cube of	5	
			(1 mark)			(1 mark)
		(c) the square root of 144		(d) the cube roc	ot of 216	
			(1 mark)			(1 mark)
Target 2	3	Work out the value of $5^2 + 3^3$	Square	the 5 and cube the 3	before you add.	
Guided		$(5 \times 5) + (3 \times 3 \times 3) = \dots$	+	=		(1 mark)
Target 2	4	2, 8, 11, 15, 21, 26, 36, 49 Write down a number from the lis	at that			
		(a) is a square number	(b) is a cube nun	nber	(c) has a square r	oot of 7.
		(1 mark)	••••••	(1 mark) .		(1 mark)
Target 2 grade 2	5	Tom carried out an investigation a '6 is a cube number since 2 <sup>3</sup> Is he correct?		At You can expla by writing a s your reason, o some neat wo	or by showing	
		No, because $2 \times 2 \times 2 = \dots$				(1 mark)
Target <b>3</b> grade	6	If you add three square numbers always get an even number. Is this statement correct? Explain	a	solved! th	/ to find an example ree square numbers mber to show the st	that
						(1 mark)

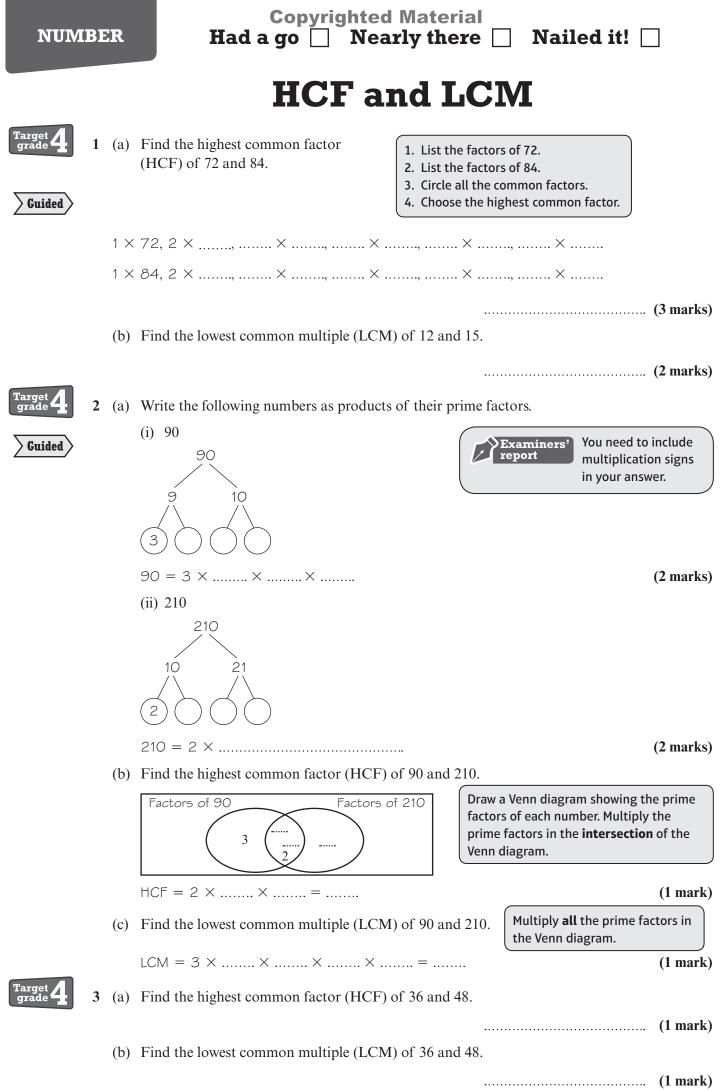


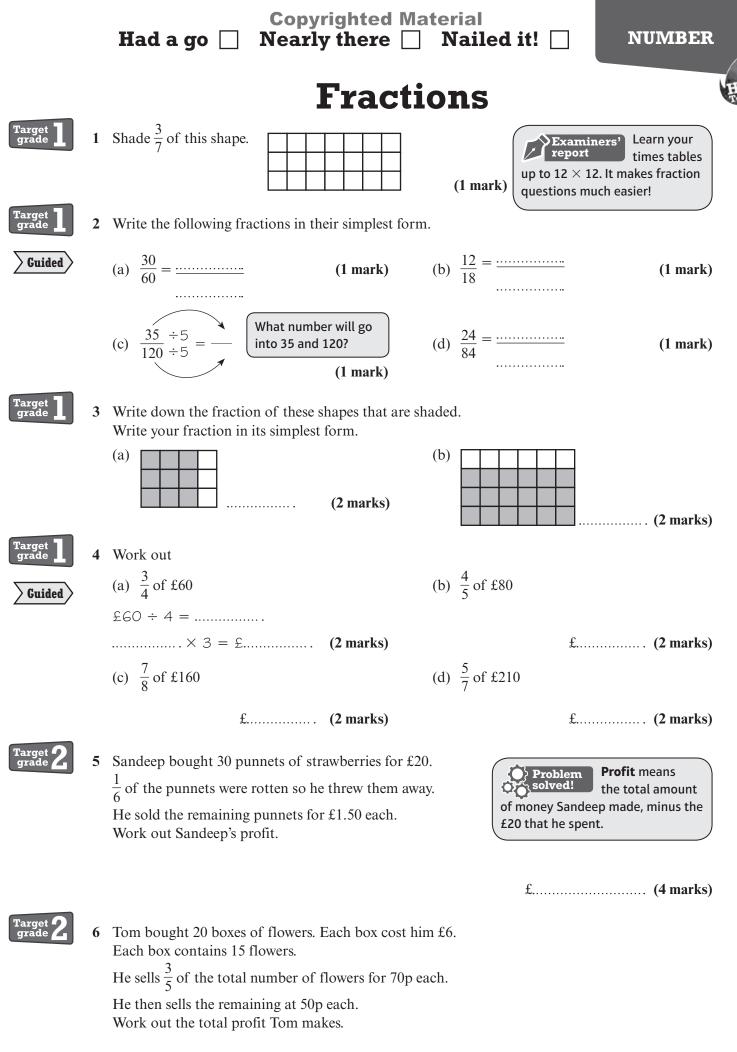
Find the value of *x*.

x = ..... (2 marks)



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		Factors, multiples and prime	\$S
Target grade	1	(a) Write down all the factors of 36.	
Guided		<ul> <li>1 × 36, 2 × ×</li></ul>	(2 marks)
		7 14	(1 mark)
Target grade	2	Use a word from the box to complete these sentences correctly. multiple factor (a) 12 is a of 132. square root cube	(1 mark)
		(b) 132 is a of 12.	(1 mark)
Target grade	3		
		Three of the numbers are prime numbers. Put a tick ( $\checkmark$ ) underneath each of these three numbers.	(1 mark)
Target grade	4	From this list of numbers write down 2 8 6 12 21 25 33 49	
		(a) a factor of 30 (1 mark) (b) a multiple of 7	. (1 mark)
		(c) two factors of 24 that have a product of 48	(2 marks)
Target grade	5	Write down three factors of 28 which have a sum between 20 and 25. Start by listing the factors of 28.	
			(2 marks)
Target grade <b>4</b>	6	Give your answers in index form.	
		(a) 54 $54 = 2 \times \dots \times \dots = 2 \times \dots^{m}$ $6 \qquad 9$ $2 \qquad 6$ 7 The prime factors are always circled.	(3 marks)
		(b) 96 (c) 126 (d) 252	
		(3 marks) (3 marks)	(3 marks)



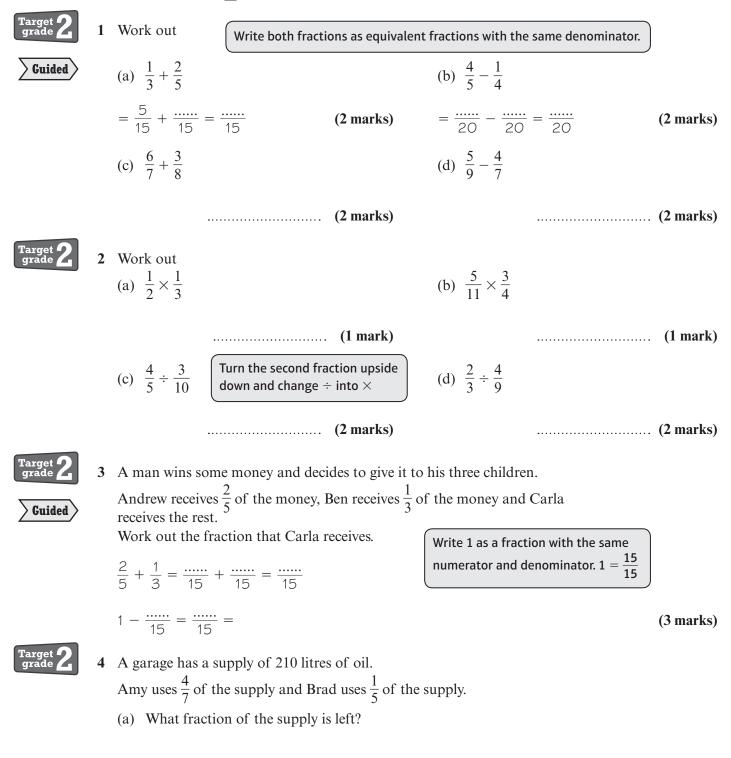


£..... (5 marks)

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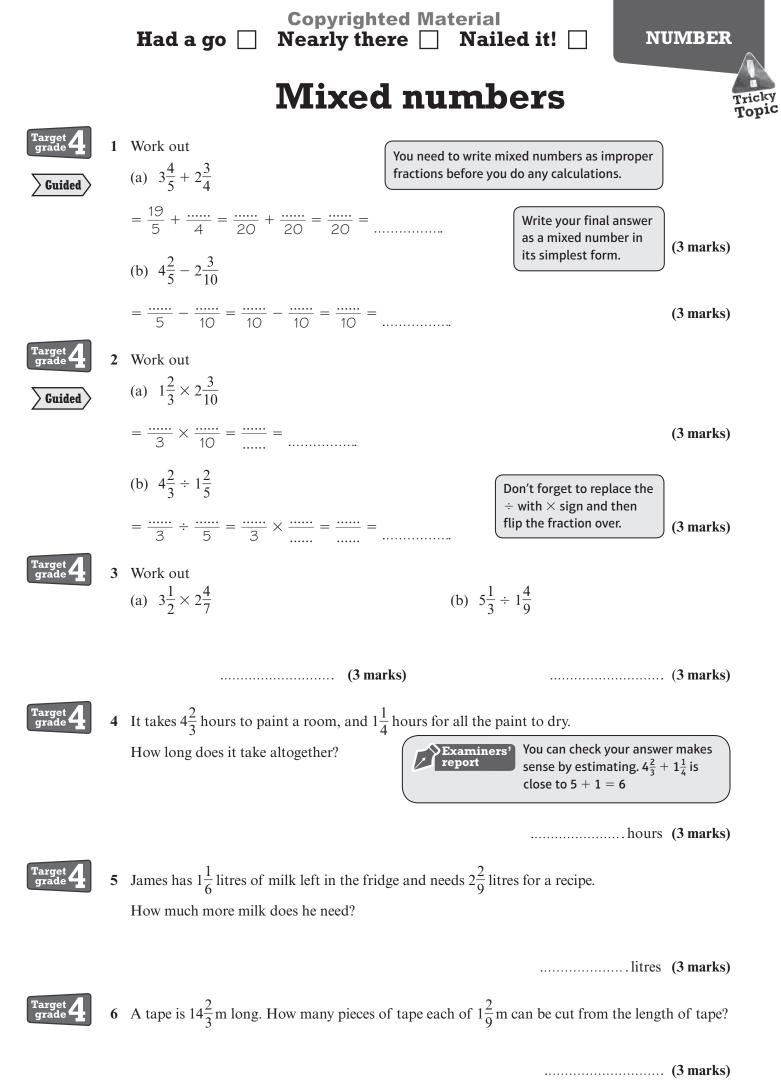
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## **Operations on fractions**

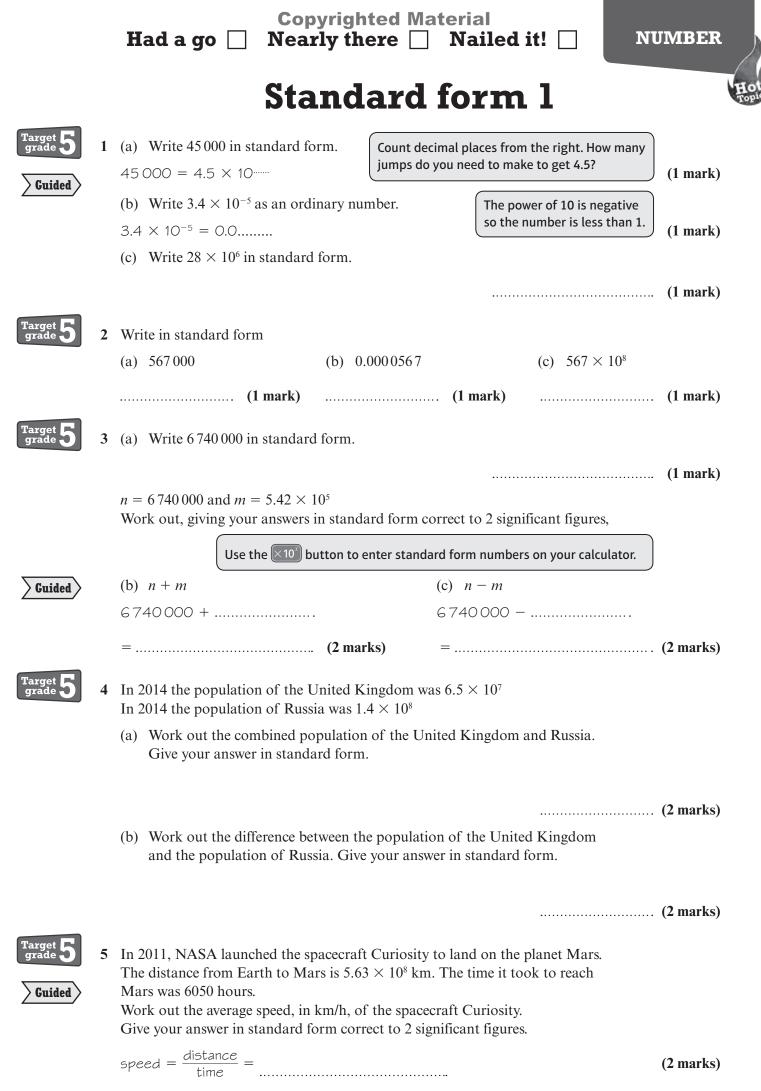


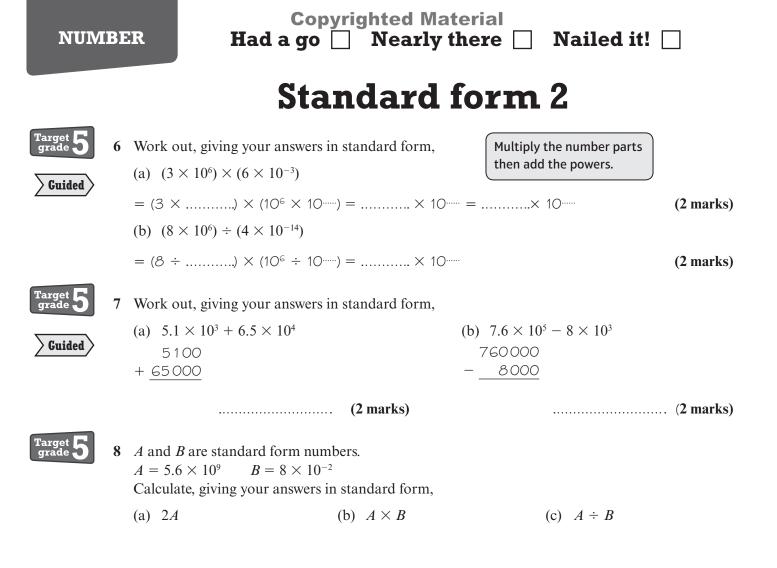
..... (3 marks)

(b) How much oil is left?



	NUM	BI	Copyrighted R Had a go 🗌 Near	Material rly there 🔲 Nailed it! 🗌
Hot Topic			Calculator and	d number skills
Tar gra	get ]	1	Work out (a) 11 + 8 ÷ 2	(b) $2 + 9 \times 10 + 3$
			11 + = (1 mark)	(1 mark)
			(c) $8 + (3 \times 20) \div 6$	(d) $(14-5)^2$
Tar	ret T		(1 mark)	(1 mark)
gra		2	Work out (a) $\frac{27 + 3 \times 3}{3 \times 2}$	You must use BIDMAS. (1 mark)
			(b) $\frac{13 - 12 \div 4}{4 + 3 \times 2}$	(1 mark)
			(c) $\frac{12 + 3 \times 6}{4 + 3 \div 3}$	(1 mark)
Targ	get <b>2</b>	3	Find the value of $\frac{4.5 + 3.75}{3.2^2 - 5.53}$	
> C	uided		Write down all the figures on your calculator $\frac{8.25}{2}$ =	display. (2 marks)
Targ	get <b>2</b>	4	(a) Find the value of $\sqrt{30.25} + 1.75^2$	Enter the numbers into the calculator. You might need to press the SOD button to get your answer as a decimal number.
			(b) Write your answer to part (a) correct to o	(2 marks)
Targ	get <b>2</b>	5	(a) Find the value of $\frac{\sqrt{18.3 + 3.6^2}}{2.8 \times 1.6}$	Examiners' Work out the numerator report and denominator
			Write down all the figures on your calculator display.	separately, and write them down. Then work out the answer, and write down <b>all</b> the figures on your calculator.
			(b) Write your answer to part (a) correct to 3	3 significant figures. (2 marks)
Tar	gret <b>7</b>		$32.5 \times \sqrt[3]{16.3}$	
gra	ide 🔼	6	(a) Find the value of $\frac{32.5 \times \sqrt[3]{16.3}}{9.5 \times 3.1}$ Write down all the figures on your calculation	ator display.
			······	
16			(b) Write your answer to part (a) correct to 2	2 significant figures. (1 mark)
10				

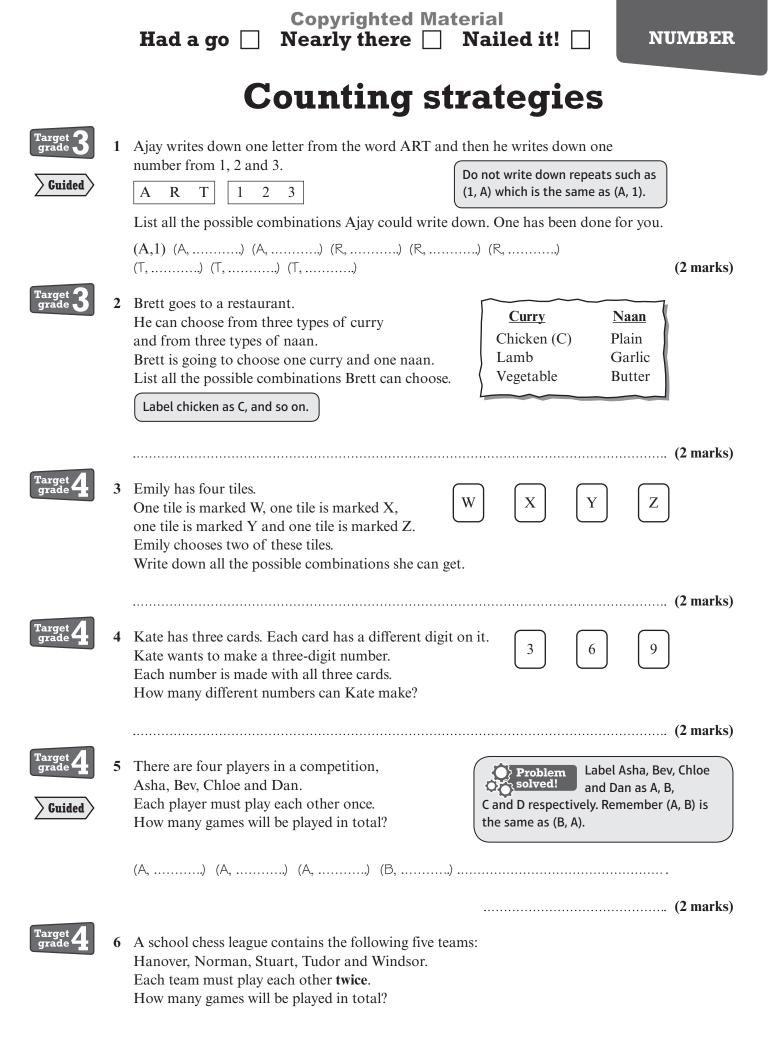




	(2 marks) (2 mar	rks)	. (2 marks)
9	It takes light 8 minutes to travel from the Sun to the Earth. The speed of light is $3 \times 10^8$ m/s. Work out the distance, in km, from the Sun to the Earth. Give your answer in standard form.	$speed = \frac{distance}{time}$	
	9	<ul> <li>9 It takes light 8 minutes to travel from the Sun to the Earth. The speed of light is 3 × 10<sup>8</sup> m/s. Work out the distance, in km, from the Sun to the Earth.</li> </ul>	9 It takes light 8 minutes to travel from the Sun to the Earth. The speed of light is $3 \times 10^8$ m/s. Work out the distance, in km, from the Sun to the Earth.

 10 The distance from the Sun to the planet Neptune is approximately 4.5 × 10<sup>9</sup> km. The speed of light is 3 × 10<sup>8</sup> m/s. Work out how long, in seconds, it takes light to travel from the Sun to the planet Neptune.

Convert the distance into solved! Convert the distance into metres, then use time =  $\frac{\text{distance}}{\text{speed}}$ 



NUM	BE	Copyrighted Material ER Had a go 🗌 Nearly there 🗌 Nailed	it! 🗌
		<b>Problem-solving practic</b>	e 1
Target 2	1	Find four different prime numbers you can add together to get a number greater than 30 and less than 40.	
			(2 marks)
Target <b>2</b> grade	2	Crisps cost 35p per packet. A bottle of lemonade costs £1.25. Nigel buys five packets of crisps and one bottle of lemonade. He pays with a £10 note. Work out how much change he should get.	
		£	(3 marks)
Target <b>2</b> grade	3	Here is part of a menu in Harry's café.	£1.30
		A blie buys some cups of coffee She has f15	£1.40
			(2 marks)
Target 2	4	A shop sells packets of sweets. There are 36 packets of sweets in each box. In November, the shop sold all the packets of sweets in 120 boxes. In December, the shop sold all the packets of sweets in 230 boxes.	
		(a) Work out the total number of packets of sweets the shop sold.	
			(2 marks)
		(b) Vans deliver the boxes to the shop. A van can carry 72 boxes. Sandra wants 452 boxes. Sandra works out she needs 6 vans to deliver the boxes.Is she correct? You must show all your working.	
			(2 marks)
Target <b>2</b>	5	Which of these fractions is the larger: $\frac{2}{3}$ or $\frac{3}{5}$ ? You must show clearly how you got your answer.	
			(3 marks)
Target 3	6	A machine makes 48 bolts every hour. The machine makes bolts for $7\frac{1}{2}$ hours	

6 A machine makes 48 bolts every hour. The machine makes bolts for  $7\frac{1}{2}$  hours each day, on 5 days of the week. The bolts are packed into boxes. Each box holds 30 bolts. How many boxes are needed for all the bolts made each week?