Benjamin Britten Academy of Music and Mathematics

MATHEMATICS HOMEWORK BOOKLET

Year 7 Book B SPRING TERM



NAME:

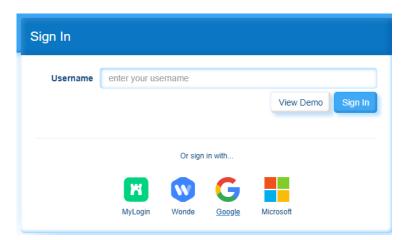


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Mathswatch Log in details:

To log into mathswatch, please click the google button and type in your school email address and your password.



username example (school email): 25bloggsj@benjaminbritten.school Password example (school password): BlueCat123.

Completing your homework

All homework tasks need to be completed in this booklet or on a specific website.

There are **answers** for all booklet tasks at the back of the booklet. Part of your homework task each week is to **mark your work**. Make sure you mark all your answers in another colour pen, making any corrections if you need to.

Remember - if you need help, you must speak to your teacher **before** the due date.



If you see the logo above next to a task, you can type the clip number into Mathswatch for extra help!

Watch the video and make notes, then try the homework task again. If you still need help, then speak to your maths teacher at school.



HOMEWORK 1: NUMERACY

S UT SERVICE											
×	2	8	4	12	7	11	9	3	6	5	10
3											
6											
8											
4											
10											
11											
9											
5											
7											
12											
2											

ten times larger: multiplying by 10, 100, 1000...

<u>examples</u>

$$0.84 \times 1000 = 840$$

- 1. True or False: $3.5 \times 10 = 3.50$
- 2. Calculate:
 - a) 64 × 100

e) 2.6×10

i) 0.054 × 10

b) 358 × 1000

f) 0.35 × 10

j) 123.89 × 1000

c) 49 × 10

g) 3.5 × 100

k) 0.8 × 1000

d) 500 × 1000

- h) 0.89 × 1000
- I) 0.904 × 10,000

multiplying decimals

each number is 10 times smaller...

example

Given that $6 \times 7 = 42$,

calculate 0.6 × 0.7 = 0.42

...so the answer is 100 times smaller

Complete each table of related calculations: 1.

$$0.3 \times 4 =$$

b)

c)

d)

$$0.6 \times 0.3 =$$

e)

f)

$$0.4 \times 5 =$$

$$3 \times 0.6 =$$

$$0.2 \times 7 =$$

$$11 \times 0.08 =$$

$$0.02 \times 6 =$$

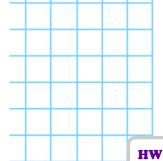
 $0.1 \times 8 =$

$$2.5 \times 6 =$$

$$9 \times 0.9 =$$

$$4.5 \times 2 =$$

$$0.25 \times 3 =$$





HOMEWORK 2: PLACE VALUE



Write each of these numbers in digits. Be careful - they are all different!

A Four thousand, two hundred

4,200

Tidilale

Forty thousand, two hundred

Four hundred and two thousand

Four hundred thousand and twenty

Four thousand and twenty

F Forty thousand and twenty

Four hundred thousand and two

H Four thousand and two

Forty-two thousand

Four hundred thousand, two hundred

Forty thousand and two

Four hundred and twenty thousand

What is the value of the...

3	9435771	
6	1826008	
4	7056247	
2	9012018	

5	4159324	
5	2540931	
7	5136047	
9	9670123	

What is the value of the...

3	0.3	
6	0.06	
1	4.21	
5	9.54	
2	145.2	

6	436.5	
9	5183.09	
4	145078.2	
8	8000657	
3	7364287	



Reading & Writing integers

Match the words on the left with their partners on the right. Record your matching pairs in the table below.

A Fou	r Thousar	nd and Ei	ghty Two	G	Eighty Tw	o Thousa	and and F	our	M 48,0		N 408,000
B Four	our Hundred and Eight Thousand Eight Hundred and Four Thousand				8,04	40	400,080				
C For	ty Eight T	housand	and Two	l l	। Forty Thousand, Eight Hundred				Q 40,8	00	4,082
P Four	een thous	and, eigh	nt hundred		J Eight Thousand and Forty					300	40,008 V
E Fo	ur Hundre E	ed Thousa Eighty	and and	K	K Eighteen Thousand and Four				804,0 W 14,8	L	82,004 × 18,004
F F	orty Thou	sand and	Eight	L	•	Hundred and, Eigh	-				
А	В	С	D	E	F	G	Н	I	J	K	L

Guess My Number challenge



Use the clues to work out my number and record it in the spaces at the bottom

My number has the same number of tens and tenths

My number has a 0 in the hundreds column and a 1 in the hundredths column

My number has 9 digits and a decimal point

My number contains the digit 4 twice, but no other repeats

The digit 3 is next to the decimal point.

My number is less than 1 million but more than half a million

My number has a 7 in the thousands column

My number does not contain the digits 2 or 6

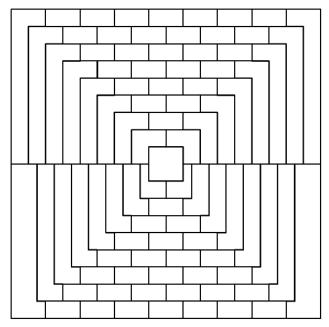
8 is next to 9 and 8 is on the left of 9



HOMEWORK 3: FOUR COLOUR THEOREM

Part A

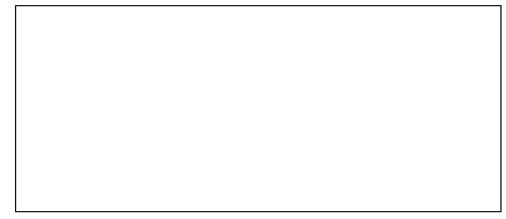
Colour in the pattern so that no areas which touch have the same colour. Try to use the least number of different colours possible.



What is the least number of different colours that are needed?

Part B

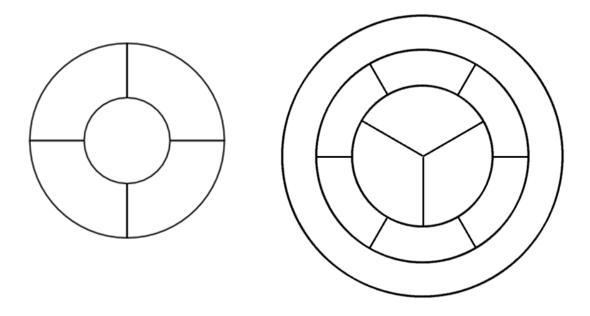
Now make your own pattern using the same rule (you can't have the same colours next to each other). Try to make a pattern which needs the greatest number of different colours.



What is the greatest number of different colours that are needed?

How many colours do you need to colour the two pictures below so that no two touching parts are the same colour? Use your own colours to test it out. Try to use the minimum number of colours possible.





Thanks to the Four Colour Theorem, we know that any picture of this kind only requires four different colours (to have no touching parts be the same colour).

RESEARCH: Use the internet or books to answer the following questions.

- Q1 a) What is cartography?
 - b) How does the Four Colour Theorem link to cartography?
- Q2 Why do some people believe that the Four Colour Theorem has not been proven properly?
- Q3 Who famously thought he had proved the Four Colour Theorem but found out ten years later that he had made a mistake?



HOMEWORK 4: NUMERACY

×	7	2	12	4	6	8	11	3	5	9	10
4											
7											
12											
2											
5											
8											
11											
9											
3											
6											
10											

written calculations: short division

<u>learn</u> by heart

Fraction Bar: the line in a fraction - it means divide

 $\frac{3}{5}$...this means $3 \div 5$

<u>examples</u>

Write $\frac{1}{8}$ as a decimal.

$$1 \div 8 = 0.125$$

Calculate half of 0.87

Which number is half way between 35 and 82?





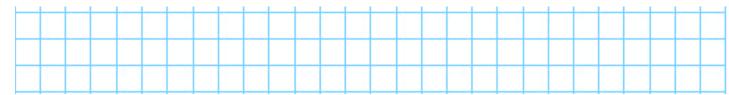
Work out

2)
$$756 \div 9 =$$

3)
$$546 \div 7 =$$



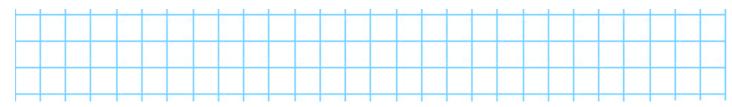
4)
$$279 \div 3 =$$



7)
$$102 \div 2 =$$

8)
$$144 \div 9 =$$

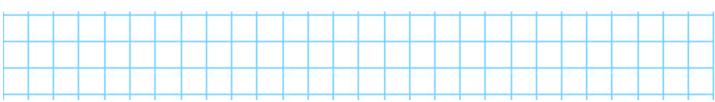
9)
$$448 \div 8 =$$



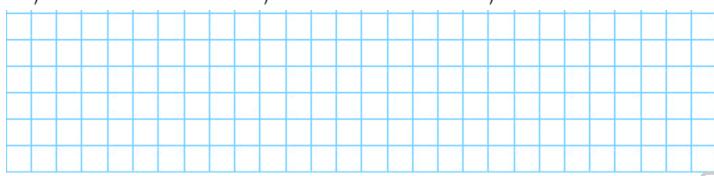


Work out:

c)
$$941 \div 5$$



e)
$$4.5 \div 4$$



HOMEWORK 5: SUBSTITUTION

<u>examples</u>



Given y = 3, evaluate:

$$2(y + 5)$$
= 2 × (3 + 5)
= 2 × 8
= 16

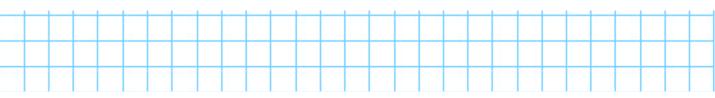
Given that a = 3, evaluate:

e)
$$4a + 2$$



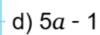




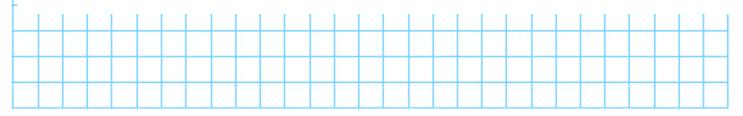


c)
$$\frac{a}{3}$$

k)
$$4 + 2a$$



h)
$$2a + 5$$





Now use what you've learned to find the answers to these:



HOMEWORK 6: MATHSWATCH



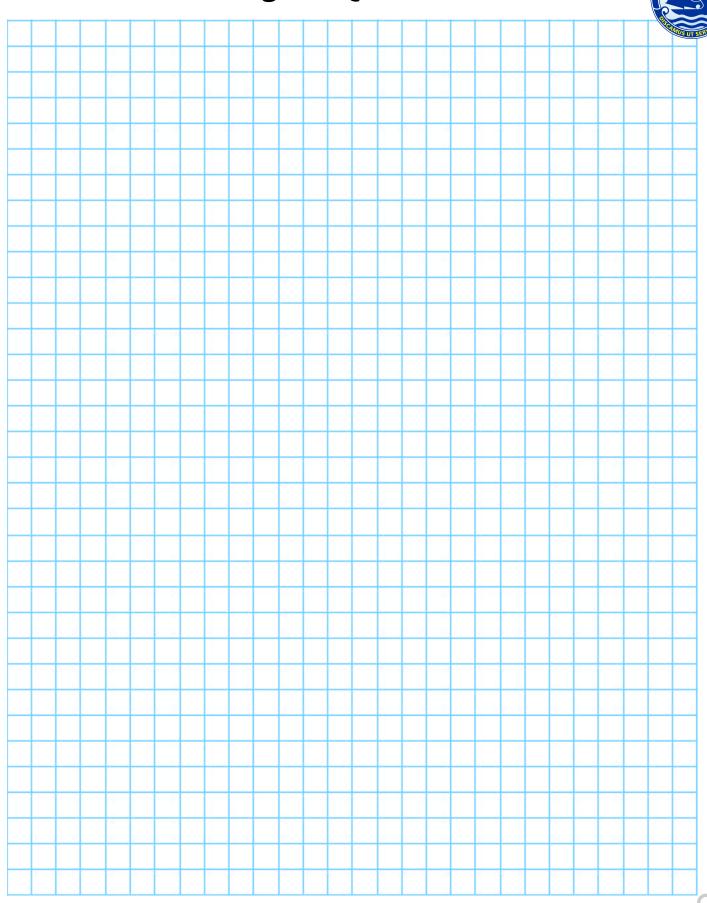
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Password— your DOB (format: monthDYYYY)

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HOMEWORK 7: NUMERACY

X	10	7	12	9	4	11	6	3	8	2	5
6											
9											
11											
8											
2											
7											
10											
12											
4											
5											
3											

multiplying integers (related calculations)

example

Given that 34 × 7 = 238, calculate 340 × 70 = 23,800

Each number became 10 times larger, so the answer became 100 times larger

1. Calculate:

c)	5 × 3 =
	50 × 3 =
	5 × 3000 =
	5000 × 3=

related calculations

Can you use one calculation to work out the answer to another?



$$12 \times 400 =$$

$$12 \times 40 =$$

$$12 \times 4 = 48$$

$$12 \times 0.4 =$$

$$12 \times 0.04 =$$

$$12 \times ... = 0.048$$

$$23 \times 9 =$$
 $23 \times 0.9 = 20.7$
 $23 \times 0.09 =$
 $23 \times 0.009 =$
 $23 \times 0.0009 =$
 $23 \times ... = 0.00207$

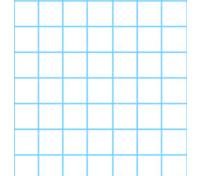
carefull both numbers are changing here:

$$1.7 \times 19 =$$
 $17 \times 1.9 = 32.3$
 $0.17 \times 0.19 =$
 $17 \times 190 =$
 $1.7 \times 0.19 =$
 $1.7 \times 0.19 =$

$$23 \times 9 =$$
 $2.3 \times 0.9 = 2.07$
 $23 \times 0.09 =$
 $0.23 \times 0.09 =$
 $2.3 \times 900 =$
 $2.3 \times ... = 0.0207$

challenge

4.
$$0.3 \times 0.4 =$$



more

A.
$$0.9 \times 0.3 =$$

B.
$$80 \times 0.06 =$$

C.
$$300 \times 0.4 =$$

D.
$$25 \times 0.06 =$$

E.
$$34 \times 0.08 =$$





HOMEWORK 8: SEQUENCES

arithmetic sequences

Work out what is happening in the sequences. Can you figure out the missing terms?

A 7 12 17 22

B 5 8 11 14

C 16 13 10 7

D 15 9 3 -3

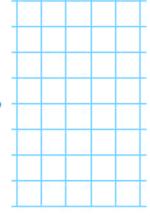
E 22 14 6

F 9 15 21

G -3 5 13

Think hard...

- (a) Is 205 a term in the sequence 1, 5, 9, 13,?
- (b) Is 200 a term in the sequence 4, 10, 16, 22, ?
- (c) Is 1000 a term in the sequence 50, 65, 80, 95,?
- (d) Is 999 a term in the sequence 11, 20, 29, 38, ?
- (e) Is 458 a term in the sequence 5, 12, 19, 26,?



Problem solving!



Apply your core skills to the challenge questions below...

The numbers in this sequence increase by 9 each time.

1 10 19 28 37 ...

The sequence continues in the same way.

Will 900 be in the sequence? Explain why

Yes / No

.....

The numbers in this sequence increase by 4 each time.

4 8 12 16 ...

The numbers in this sequence increase by 7 each time.

7 14 21 28 ...

Both sequences continue

Write a number greater than 100 which will be in both sequences



HOMEWORK 9: REAL LIFE MATHS



The following temperatures were taken in January.

Temperature (°C)
4
20
15
-21
-17
-6
-16





1) Put the temperatures in order, from coldest to warmest.

coldest warmest
2) How much colder is Amsterdam than Cape Town?
3) How much warmer is New York than Moscow?
4) Vancouver is 13 degrees warmer than New York. What is the temperature in Vancouver?
5) How much colder is Toronto than Amsterdam?
6) What is the difference in temperature between the warmest and coldest place
7) The temperature in Detroit is 32 degrees colder than Cape Town. What is the temperature in Detroit?
8) Which two places have the closest temperatures?
9) Which place has the median temperature?





Captain Salamander has just returned from a round the world trip with his friend Tyger. Here are the places they visited.

From	То	Distance (km)	Distance to nearest 100 km
Washington DC	Los Angeles	3693	3700
Los Angeles	Tokyo	8807	
Tokyo	Bombay	6741	
Bombay	Athens	5173	
Athens	Paris	2096	
Paris	London	343	
London	Washington DC	5899	

1) Fill in the distance to the nearest 100 km column.

2) But the distances in order from shortest to longest

2) Fut the distances in order from shortest to longest.	
shortest long	gest
3) How much further is the trip from Bombay to Athens than the trip from Washington DC to Los Angeles? km	
4) What is the total distance from Los Angeles to Tokyo to Bombay to Athens? km)

6) When arriving at Bombay, Tyger says 'So far we have travelled over 20,000 km.' Is he right?

5) Tyger says 'The distance from Washington DC to Los Angles is more

than 10 times the distance from Paris to London.' Is he right? _____



HOMEWORK 10: NUMERACY

×	11	8	12	5	7	3	10	6	9	4	2
7											
12											
6											
10											
2											
8											
11											
9											
3											
5											
4											

Complete these multiplication grids:

a)	×	6	8	10
	3			
	4			
	20			

L \				
b)	×	3	20	
	2			60
	5			
	40			

c)	×	5		25
	2		60	
	20			
				2500

d)	×		50	100
	4	8		
			350	
		180		

- 1) 3 x 20 =
- **6)** 6300 ÷ 70 =

2) $7 \times 40 =$

7) 3600 ÷ 60 =

3) $9 \times 60 =$

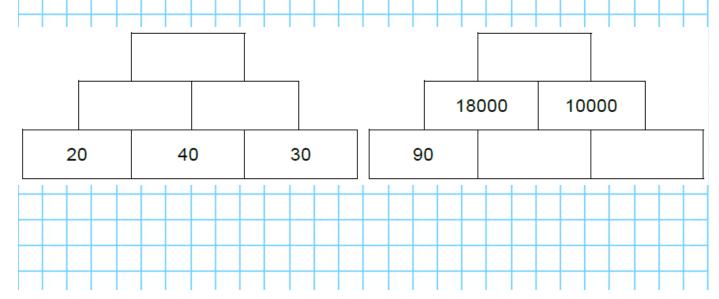
8) 5600 ÷ 70 =

4) $8 \times 50 =$

9) 12100 ÷ 110 =

5) 12 x 70 =

10) 10800 ÷ 90 =



1) A school wants to take 240 year 7 students on a school trip. The school decides to book coaches. Each coach seats 80 pupils. How many coaches should the school book?

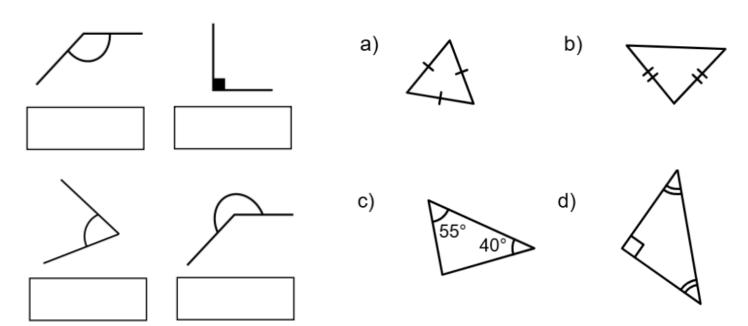
2) A large company holds a meeting for all its employees in a large conference hall. There are 2800 employees in the company. Each row seats 70 people. How many rows in the conference hall will be filled?

3) A car dealer has to sell 120 Fordo cars next year. The car dealer wants to have sales of at least £960'000. What price must the car dealer sell each car for in order to make sales of at least £960'000?



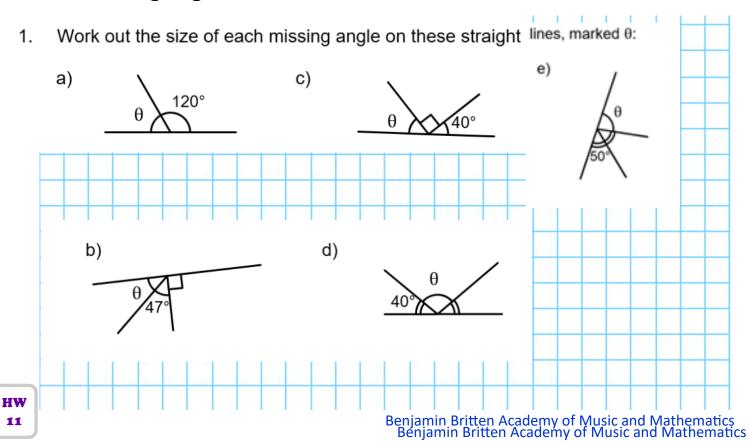
HOMEWORK 11: ANGLES

 Label these angles as acute, right, obtuse or reflex: Decide whether each triangle is isosceles, scalene or equilateral:



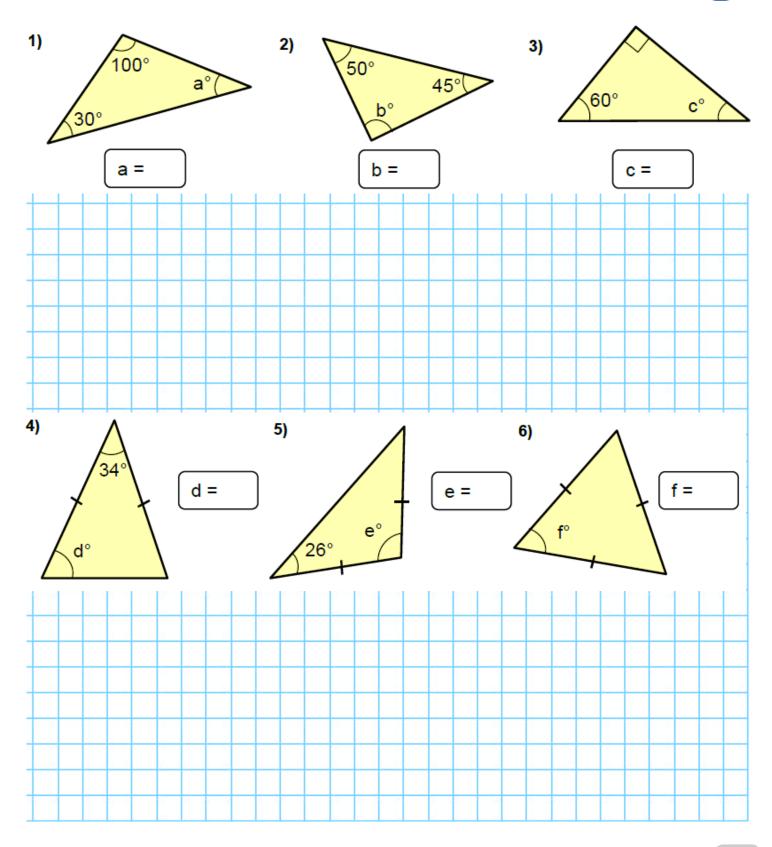
Given that angles on a straight line sum to 180°

Find the missing angles below



Given that angles in a triangle sum to 180°

Find the missing angles below





HOMEWORK 12: MATHSWATCH



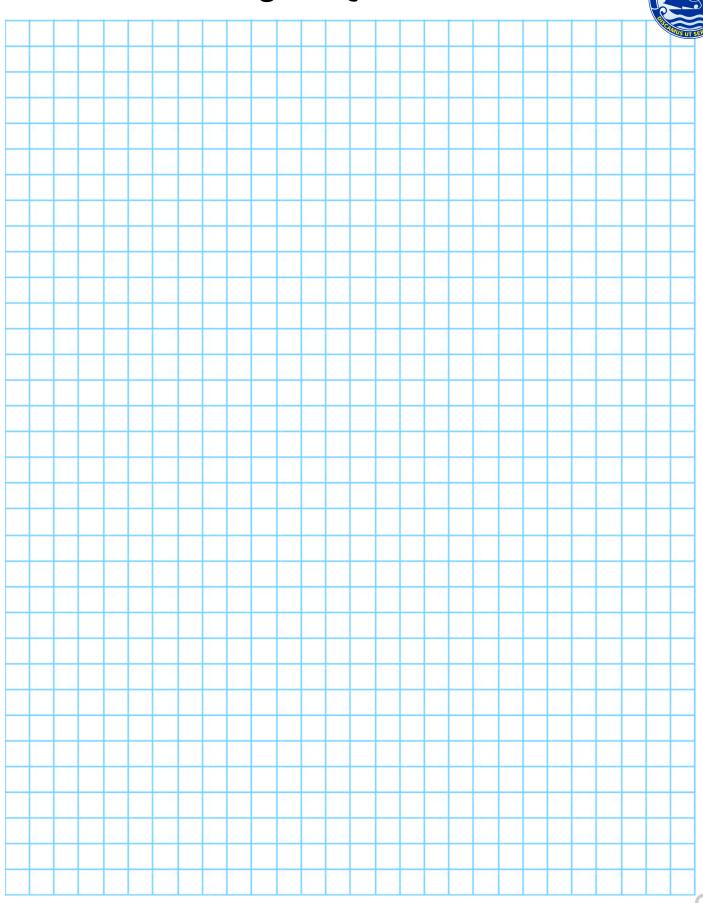
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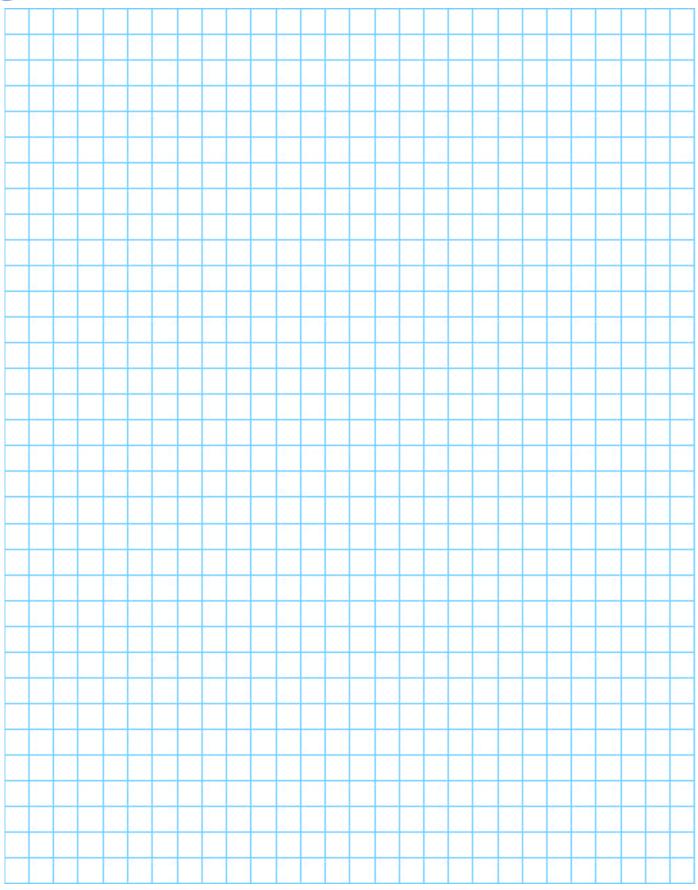
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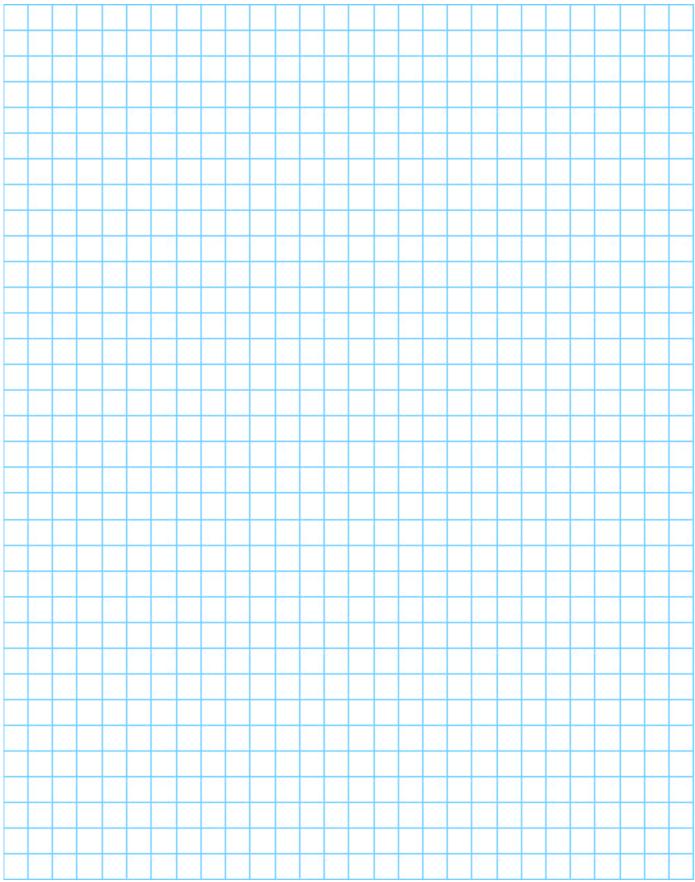
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ANSWERS—WEEK 1

d) 500 × 1000	200,000	0001 × 68.0 (d	068	000,01 × 400.0 (I	070'6
ol × 94 (o	067	9) 3.5 × 100	320	K) 0.8 × 1000	008
p) 328 × 1000	328,000	01 × 35.0 (1	3.5	0001 × 88.621 (į	123,890
001 × 40 (s	004'9	01 × 0.2 (ə	56	01 × 420.0 (i	₽ 9.0

2. Calculate:

1. True or False: $3.5 \times 10 = 3.50$ False

7	Þ	91	8	77	77	77	18	9	75	OT	50
75	77	96	84	144	78	132	801	98	7.7	09	120
L	14	95	87	48	67	LL	٤9	17	77	32	0/
S	ot	07	50	09	32	SS	St	ST	30	SZ	05
6	81	7.5	98	108	89	66	18	77	75	St	06
ττ	77	88	tt	132	LL	171	66	55	99	SS	OTT
οτ	70	08	07	120	04	ott	06	30	09	05	001
b	8	32	91	84	87	ÞÞ	98	77	77	70	07
8	91	7 9	32	96	95	88	7.2	77	84	07	08
9	12	84	77	7.2	77	99	7 S	81	98	30	09
ε	9	77	77	98	17	33	72	6	81	ST	30
×	7	8	Þ	77	L	ττ	6	ε	9	S	OT

ANSWERS—WEEK 2

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000 000 8	ZS9 000 8	8
40 000	145 078.2	ħ
001/6	60.881 ₹	6
9	2.954	9

5/10	145.2	7
2\10	⊅ S'6	S
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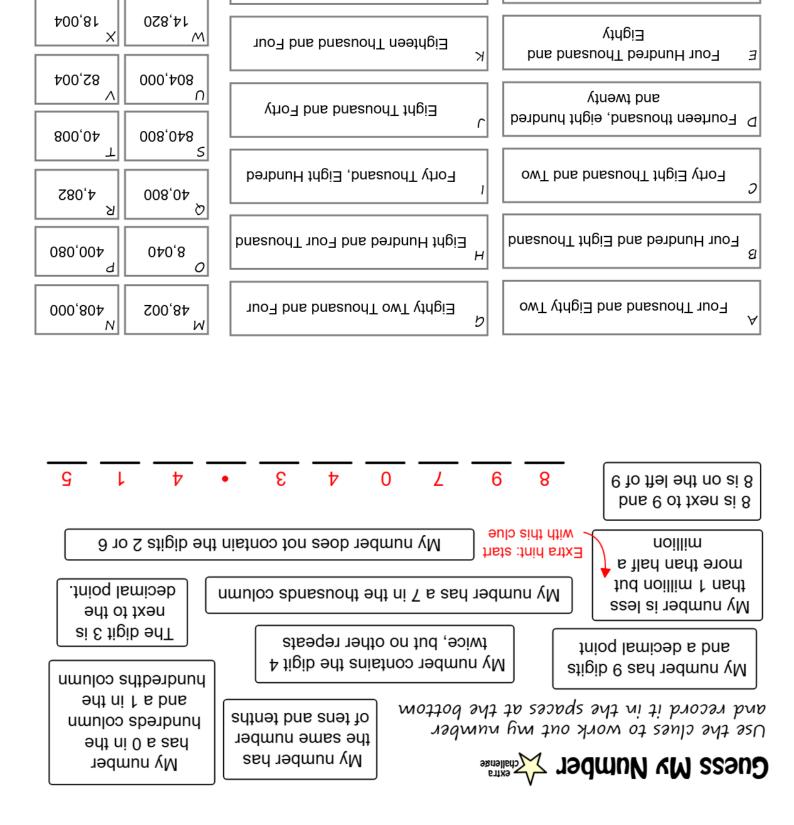
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000 000 6	871 078 9	6
L	∠ 1 0 98T S	L
000 009	7 240 937	S
000 09	4 129 324	S

2000	9 0 1 2 0 1 8	7
07	∠ 1 0 990 ∠	†
0009	1 876 008	9
30 000	700 584 6	٤

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Itagagattib Ilo gag voc	14 1113030000	otipib di orodania	03041 10 4000 of 11/V

450,000	200,04	400,200	45,000	
thousand		hundred		
and twenty	owf bns	thousand, two	thousand	
Four hundred	K Forty thousand	1 Four hundred	N Forty-two	
4002	400,002	40,020	4020	
owt bns	owt bns bnssuodt	and twenty	and twenty	
H Four thousand	e Four hundred	Forty thousand	E Four thousand	
400,020	402,000	40,200	4,200	
twenty				
pue puesnoqi	bnesuodi owi bne	two hundred	two hundred	
a Four hundred	c Four hundred	B Forty thousand,	A Four thousand,	



Х

К

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Н

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C

Thousand, Eight Hundred

Eight Hundred and Forty

7

Ν

Forty Thousand and Eight

ANSWERS—WEEK 4

001	06	05	30	οττ	08	09	01⁄2	120	70	02	от
09	75	30	81	99	87	98	77	7.5	77	77	9
30	77	ST	6	33	77	81	77	98	9	7.7	ε
06	18	St	77	66	7.2	75	98	801	81	٤9	6
OTT	66	SS	33	121	88	99	tt	132	77	LL	ττ
08	7.5	07	77	88	7 9	817	32	96	91	95	8
05	St	52	ST	SS	07	30	70	09	ot	32	S
70	81	OT	9	77	91	75	8	77	Þ	14	7
120	108	09	98	132	96	7.5	817	144	77	78	75
02	٤9	32	7.7	LL	95	77	87	78	14	67	L
07	98	50	77	bb	32	77	91	84	8	87	Þ
OT	6	S	ε	II	8	9	Þ	77	7	L	×

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Use short division to write these fractions as decimals:

ANSWERS—WEEK 5

a)
$$10a \ 30$$
 (e) $4a + 2$ 14 (i) $5 - a$ 2
b) $a^2 \ 9$ (f) $a \ 7a \ 10$ (g) $a \ 7a \ 10$ (g) $a \ 27$ (g) $a \ 27$ (h) $a \ 30 \ 30 \ 30$ (h) $a \ 30 \$

Given that a = 3, evaluate:

$$(16) \quad \cancel{3} + \cancel{4} \times \cancel{4} \times \cancel{4} = \cancel{2} \times \cancel{4} \times \cancel{4} \times \cancel{4} \times \cancel{3} \times \cancel{3} \times \cancel{3} = \cancel{40}$$

Now use what you've learned to find the answers to these:

 $(5) \quad 2 + 4 \quad 4 \quad + 2 = 15$

$$LI = b + g + \xi (v)$$

$$LI = \begin{pmatrix} b \end{pmatrix} + G + \begin{pmatrix} E \end{pmatrix} \begin{pmatrix} b \end{pmatrix}$$

$$6 = \mathcal{E} - \sqrt{2} + \sqrt{9}$$

$$(8) \qquad \qquad = \begin{pmatrix} b \\ \end{pmatrix} - \begin{pmatrix} \frac{3}{2} \\ \end{pmatrix} + \begin{pmatrix} b \\ \end{pmatrix}$$

$$\varepsilon = \boxed{q} - \boxed{\xi} + \boxed{q} \tag{8}$$

$$L = \begin{pmatrix} b \end{pmatrix} \div \begin{pmatrix} b \end{pmatrix} \times L \quad (01)$$

$$L = \begin{pmatrix} p \end{pmatrix} \div \begin{pmatrix} p \end{pmatrix} \times L \quad (01)$$

$$(12) \quad \frac{q}{q} + \sqrt{3} \times \frac{q}{q} = 30$$

$$(15) \quad \frac{d}{d} + 23 \times \frac{d}{d} = 30$$

$$(14) \quad q + 24 \div \sqrt{3} = 17$$

$$(16) \quad 2 \times \boxed{9} - \boxed{3} = 15$$

$$b = b \div pg + 2$$
 (21)

$$(18) \quad \frac{3}{4} \times \frac{3}{3} = 24$$

 $(13) \quad \frac{d}{d} \times \underbrace{3} - \underbrace{d} = 12$

 $(11) \quad 2 + 4 \quad 4 \quad \times \quad 2 = 30$

 $+ = \underbrace{3} \div \underbrace{3} \times \uparrow \quad (6)$

 $301 = 9 \times 2 \times 4 \times (7)$

b = b - b + b (g)

 $(3) \quad q + \sqrt{3} + q = 21$

b = 2 + 2 + 2 + 2 = 0

$$\frac{1}{12} = \frac{1}{2} - \frac{1}{2} \times \frac{1}{2} = 2$$

$$\frac{1}{12} = \frac{3}{2} - \frac{3}{2} = 24$$

$$\frac{1}{12} = \frac{3}{2} - \frac{3}{2} = \frac{3}{2}$$

ANSWERS—WEEK 7

2000 × 3 = 12,000	
000,3r = 000e × 3	
20 × 3 = 120	
2 × 3 = 12	(၁

1800	-= 00 × 06	
1800	- = 002 × 6	
000,81	= Z × 0006	
	= Z × 6	(q

2400	= 07 × 09	
240	_ = \tau \times 09	
2400	= 007 × 9	
→ で	= 7 × 9	(ខ

Calculate:

ST	9	77	6	18	33	77	7.7	98	7.7	30	ε
SZ	OT	07	ST	30	SS	50	St	09	32	05	S
70	8	32	12	77	tt	91	98	817	87	07	b
09	77	96	98	7.2	132	817	801	744	1/8	120	77
05	50	08	30	09	ott	07	06	120	04	001	от
35	14	95	7.7	77	LL	87	٤9	78	67	02	L
οτ	Þ	91	9	77	77	8	18	74	τt	50	7
07	91	79	77	817	88	32	7.5	96	99	08	8
SS	77	88	33	99	171	לל	66	132	LL	OTT	ττ
St	81	7.5	72	75	66	98	18	108	89	06	6
30	77	817	18	98	99	77	75	7.2	77	09	9
S	7	8	3	9	ττ	Þ	6	77	L	от	×

```
1. 6 \times 7 = 42

2. 0.6 \times 7 = 4.2

3. 3 \times 4 = 12

4. 0.3 \times 0.4 = 0.12

5. 80 \times 0.09 = 7.2

6. 80 \times 0.09 = 7.2

7. 4 \times 4 = 16

8. 400 \times 0.06 = 4.8

6. 80 \times 0.06 = 4.8

7. 4 \times 4 = 16

8. 400 \times 0.06 = 1.5

7. 4 \times 4 = 16

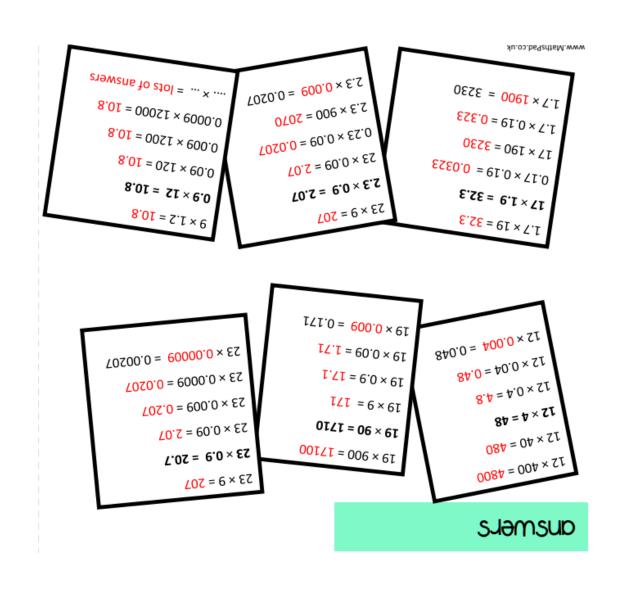
8. 400 \times 400 = 160000

8. 400 \times 400 = 160000

8. 400 \times 400 = 160000

8. 400 \times 400 = 160000
```

challenge



ANSWERS-WEEK 8

- ON (9)
- oN (b)
- ON (2)
- ON (d)
- (a) Yes
- e -3 1 2 6 13 1<u>1</u>
- F 9 12 18 21 24
- E 22 14 6 -2 -10 -18
- G1- 6- 8- 8 6 91 a
- C 16 13 10 7 4 1
- B 5 8 11 14 17 20
- A 72 22 71 32 A

Work out what is happening in the sequences. Can you figure out the missing terms?

SJAMSUD

Will 900 be in the sequence? Explain why Lak number in the sequence is one more than the multiples of 9 the sequence. A is the sequence:

Captain Salamander has just returned from a round the world trip with his friend Tyger. Here are the places they visited.

0065	6685	DO notgnidseW	иорио
300	343	иорио	Paris
7100	9607	Paris	snədtA
2500	2173	Athens	Вотрау
0049	T# Z 9	Вотрау	Τοκγο
0088	Z088	Τοκγο	sələgnA soJ
3200	8698	sələgnA soJ	DO notgnidseW
nearest 100 km			
Distance to	Distance (km)	οΤ	From

1) Fill in the distance to the nearest 100 km column.

2) Put the distances in order from shortest to longest.

longest						sportest
<u> 7088</u>	1479	6685	ELIS	£69E	9607	343

- 3) How much further is the trip from Bombay to Athens than the trip from Washington DC to Los Angeles? 1480 km
- 4) What is the total distance from Los Angeles to Tokyo to Bombay to Athens? LSS48 km
- Synger says 'The distance from Washington DC to Los Angles is more of Tondon.' Is he right?

 On Synger says and Synger says and Synger says are one of the says and Synger says are one of the says and synger says are one of the synger says and synger says are says and synger says and synger says are says are says and synger says are says are says and synger says are says are says and synger sa
- 6) When arriving at Bombay, Tyger says 'So far we have travelled over 20,000 km.' Is he right?

ou
$$17761 = 1779 + 7088 + 8698$$





9-	New York
۷۲-	Moscow
12-	RiloqsenniM
ST	Hong Kong
70	Cape Town
Þ	Amsterdam
(C°) ərutsrəqməT	Country/State



1) Put the temperatures in order, from coldest to warmest.

Toronto

02- <u>21- 1- 3- 31- 71- 12-</u>

9T-

2) How much colder is Amsterdam than Cape Town? 16° colder

3) How much warmer is New York than Moscow? II Warmer

4) Vancouver is 13 degrees warmer than New York. What is the temperature in Vancouver? _____

5) How much colder is Toronto than Amsterdam? 20° colder

6) What is the difference in temperature between the warmest and coldest place?

7) The temperature in Detroit is 32 degrees colder than Cape Town. What is the temperature in Detroit? _____

8) Which two places have the closest temperatures? Minneapolis and Moscow

9) Which place has the median temperature? New York

ANSWERS-WEEK 10

0006	4200	180	06
002	320	Þ١	۷
007	200	8	Þ
100	09	2	×

5200	3000	200	100
200	009	100	20
09	09	10	2
52	30	g	×

1200	008	120	01⁄2
120	100	91	G
09	01⁄2	9	2
30	20	3	×

500	160	120	20
07	32	24	7
30	24	81	3
01	8	9	×

Complete these multiplication grids:

(2

8	91	98	77	07	12	82	50	84	32	לל	Þ
ot	70	St	30	05	ST	32	52	09	07	SS	S
9	77	77	81	30	6	7.7	ST	98	77	55	ε
18	98	18	75	06	<u> </u>	89	St	801	7.5	66	6
77	לל	66	99	οττ	33	LL	SS	132	88	121	ττ
91	32	7.5	84	08	77	95	07	96	7 9	88	8
t	8	81	77	70	9	14	οτ	77	91	77	7
70	07	06	09	001	30	٥L	05	120	08	OTT	οτ
12	77	75	98	09	81	77	30	7.2	84	99	9
77	87	108	7.2	120	98	48	09	744	96	132	75
14	87	٤9	77	04	7.7	67	32	48	95	LL	L
7	Þ	6	9	OT	ε	L	S	77	8	ΙΙ	×

(q

- $078 = 07 \times 21$
- (t $00t = 09 \times 8$
- (5 $0+9 = 09 \times 6$
- (2 $082 = 07 \times 7$
- (1 $3 \times 50 = 60$

- (6 $011 = 011 \div 00121$
 - (8 08 = 07 ÷ 0088

 - (1 3900 ÷ 90 09 =

 - (9 $07 \div 0089$

 - 06 =

09

10000

200

1800000081

18000

- = 150 06 ÷ 00801 (01

- 30
- 0t

- - 008

school book? 3

(£

(ı

20

- order to make sales of at least £960'000? £8000

06

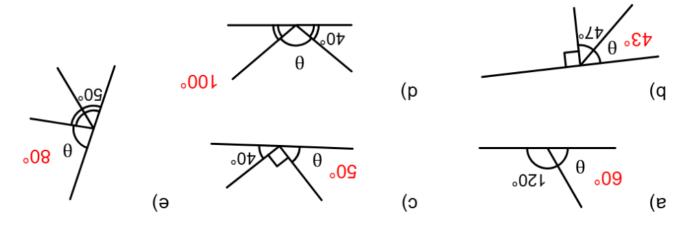
- sales of at least £960'000. What price must the car dealer sell each car for in
- A car dealer has to sell 120 Fordo cars next year. The car dealer wants to have
 - How many rows in the conference hall will be filled? 40
- hall. There are 2800 employees in the company. Each row seats 70 people. A large company holds a meeting for all its employees in a large conference (Z

to book coaches. Each coach seats 80 pupils. How many coaches should the

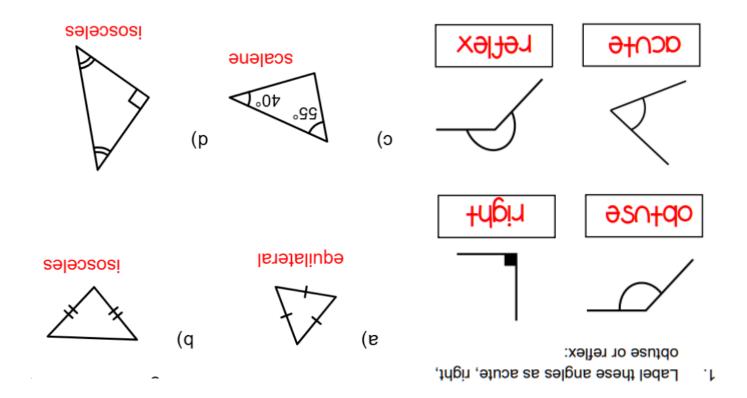
A school wants to take 240 year 7 students on a school trip. The school decides

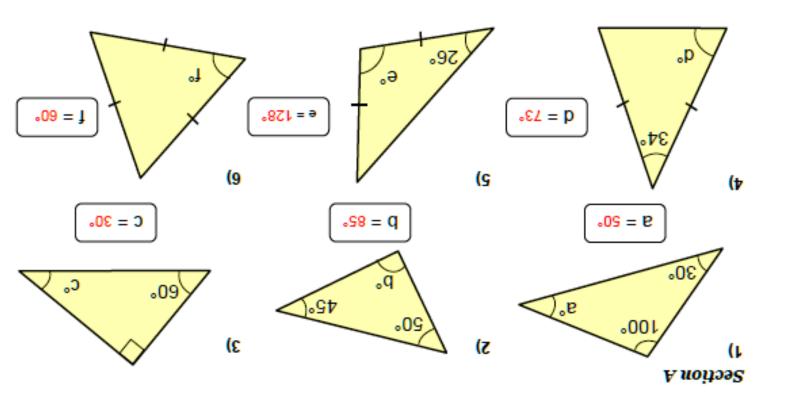
Benjamin Britten Academy of Music and Mathematics

ANSWERS-WEEK 11



Work out the size of each missing angle on these straight lines, marked $\boldsymbol{\theta}$:





EXTRA SUPPORT

If you need help with completing your homework, please use the Mathswatch clips in the LOOK boxes first. If you are still stuck, speak to your class teacher.

If you need to contact the Head of Maths regarding any worries or concerns, you can contact Miss Pankhurst at:

j.pankhurst@benjaminbritten.school

RESOURCES PROVIDED BY:

Numeracy Ninjas Mr Carter Maths Miss B's Resources NRich Worksheet Works 10Ticks

