

	Vri	no chance		even chance	of each event hap	certain
а	۱ ۱	You will see a o	,			
b You will write answers at school today.  certain					13.33	
С		You flip a coin	once and it will l	and on heads.		
					ke one without l	ooking.
			ents true or fals		205	
	а	it is certain i	False	towel with strip	JES.	
	b	There is no		ll take a towel v	vith spots.	
	С	There is a go		I will take a tov	vel with stripes.	









3) The students in a class stand in 4 rows.

There are 9 students in each row.

How many students are in the class?

36 students

4)

×	3	4	5
2	6	8	10
4	12	16	20
6	18	24	30

5) Are the following number sentences true or false.

Give a reason for each answer.

a 
$$6 \times 7 = 7 \times 2 \times 3$$

true; 
$$6 \times 7 = 42$$
 and  $7 \times 2 \times 3 = 42$ 

b 
$$7 \times 6 = 3 \times 7 + 7$$

b false; 
$$7 \times 6 = 42$$
 and  $3 \times 7 + 7 = 28$ 







6)	Λ and □	represent	two different	whole	numbers
- /	$\triangle$ and $\square$	represent	two different	WHOLE	Hulliber

$$\Delta \times \Delta = 25$$

$$\triangle \times \triangle \times \triangle = \square$$

What are the values of  $\Delta$  and  $\square$ ?

$$\Delta$$
 = 5 and  $\square$  = 125

7)

Look at the following statement.

When you multiply a 2-digit number by a 1-digit number the product is a 3-digit number.

Is the statement always, sometimes or never true?

Explain your answer.

Sometimes true, for example  $15 \times 5 = 75$  and  $75 \times 5 = 375$ 

8)

Darius calculates 19 × 3 using an array. He makes an error.



$$20 \times 3 = 60$$

$$60 - 1 = 59$$
 so  $19 \times 3 = 59$ 

Explain what Darius has done wrong and correct his answer.

Darius should subtract 3 not 1

$$60 - 3 = 57$$







10) Circle the highest number that is a factor of 30, 42 and 48.

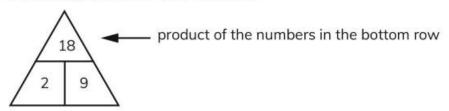
2

3

6

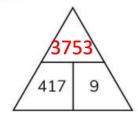
8

Here is the rule for finding numbers in a triangle.



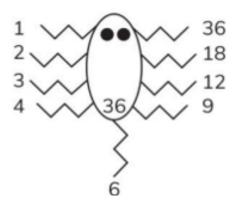
Use this rule to complete this number triangle.

Show your working.



11)

Complete the factor bug for 36.







Lara thinks of a whole number between 1 and 10.

The table shows information about her number.

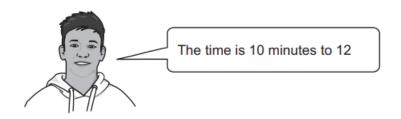
	Yes	No
a multiple of 2	✓	
a multiple of 3		✓
a factor of 6	✓	

What is Lara's number?

2

15) Rajiv looks at his analogue watch.
 One hand is pointing to the 10
 The other hand is pointing to the 12

Rajiv says,



Rajiv is not correct.

Explain the mistake Rajiv has made.

An answer explaining that Rajiv has mixed up the hour and minute hands, e.g. 'He thought the small hand was telling the minutes, but it was pointing to the hours.'







Ahmed draws a shape with straight sides on a piece of paper.

He places a mirror along one side of his shape.

He reflects the shape in the mirror.

The complete shape he sees is a rhombus.

Tick (✓) the name of the shape Ahmed draws.

scalene triangle	
isosceles triangle	✓
rhombus	
square	

17) Four children each have a bag of sweets.

Mike eats 2 sweets from his bag containing 8 sweets.



Oliver eats 2 sweets from his bag containing 10 sweets.



Lily eats 4 sweets from her bag containing 12 sweets.



Mia eats 4 sweets from her bag containing 16 sweets.



Write the names of the children who eat one quarter of the sweets from a bag.

#### Mike and Mia







Jamila has 16 black counters. She makes a square array using **all** the black counters.



Jamila also has some different coloured counters. These are shown in the table.

Tick ( $\checkmark$ ) to show if Jamila can make a square array using **all** the counters of each colour.

Number of counters	Can make a square array using all the counters	Cannot make a square array using all the counters
4 red	✓	
12 yellow		✓
18 blue		✓
25 green	✓	







20) Carlos counts back in steps of one thousand. He starts at 3800

Write the next two numbers that Carlos counts.

	2800	1800
21) Eva has three	e digit cards.	
She uses the	cards to make a 3-digit number.	
Eva says,	'I can <b>only</b> make odd numbers wit	th my digit cards.'
Write a digit of	on each card to make Eva's statem	ent correct.

Any three odd digits,

e.g. 1, 5, 7







#### 22) complete the number sentence

# Write the correct number in each box to complete the balance scales.



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Angelique puts her stamps in two **equal** piles. Each pile has between 50 and 75 stamps.

Angelique shares one pile equally between 3 friends. There are no stamps left.

She shares the other pile equally between another 5 friends. There are 2 stamps left.

Write all the possible totals of stamps Angelique could have in each of her two equal piles.

57 and 72 (stamps)



