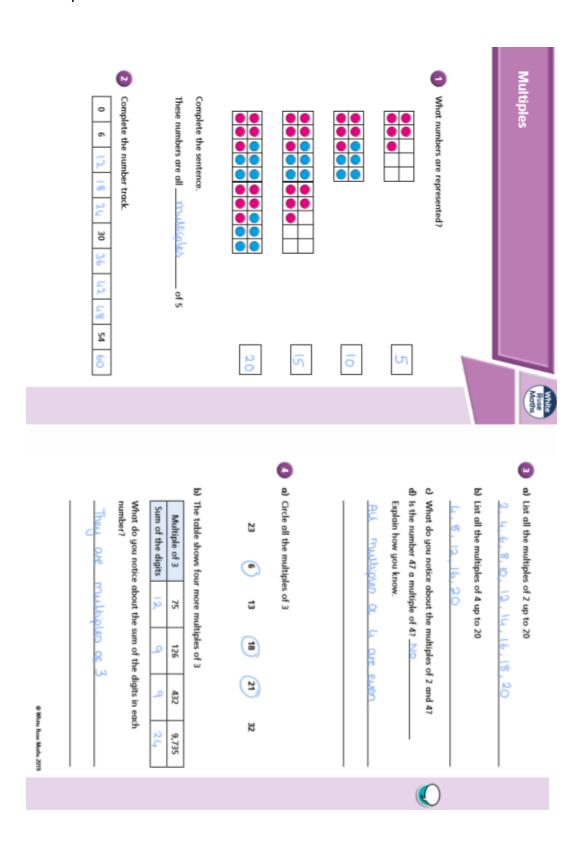
#### Maths answers

# Monday



# Monday

Multiples of 5 always have a 5 in the number.

Rosie and Jack are each thinking of a number.

is a multiple of 3 and 5 My number

is a multiple of 2 and 10 My number



Which number is the odd one out?

Explain your answer

Could they be thinking of the same number? 40

Various Tick your answer. G. 3 S MARCINO









Explain to a partner why it is the odd one out.

Here is part of a hundred square.

22 32

23

25 35 36 26 6

34 28 14 15

37 il 17

38 28 18







0



His age is one away from a multiple of 7 Scott's age is a multiple of 8 and 12

He is younger than 50 years old. How old is Scott?



b) Draw a circle around all the multiples of 2

Some numbers have been coloured and circled What do you notice about these numbers?

a) Colour the multiples of 3

0 Write the multiples of 15 between 250 and 350

270

330

0

Compare answers with a partner to make sure you have them all











0



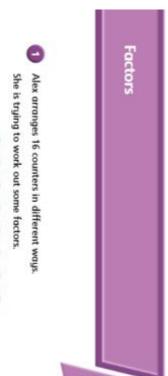
# Tuesday

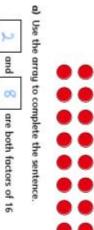
c) Show why 6 is not a factor of 20

b) Rearrange the counters to show why 4 and 5 are also factors

a) Show that 2 and 10 are factors of 20

Use 20 counters.





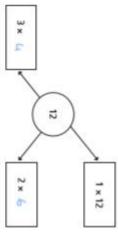
b) Alex rearranges the counters.



How does this array show that 5 is not a factor of 16?



a) Complete the diagram to show the pairs of numbers that multiply to make 12



List all the factors of 12

1236612

b) Draw a similar diagram to show the pairs of numbers that multiply to make 24



List all the factors of 24

1.2.3.4. 4.8.12.24



a) List all the factors of 32

b) How can you check that you have found all the factors?

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# Tuesday

Which number has the most factors? Tick your answer.

64

8

b) What number is Eva thinking of?

S S

- 0 a) Circle the factors of 30 15 25 3 30 4 2 12
- b) These numbers are all factors of a 2-digit number

What could the number be?

60

Look at each statement.

a) 20, 30 and 40 are all factors of 10 Explain the mistakes that have been made

0

Amir and Eva are describing numbers using factors.

b) 0.5 is a factor of 8 as 16 halves equals 8

Ę,

My number

How do we know that these statements are true?

a) 5 is a factor of 195 but not a factor of 196

does not have The number 11

any factors

Amir

Eva

a) Is Amir correct? No

Explain your answer.

and 25. It only has lies between 20

two factors

b) 3 is a factor of 177 but not a factor of 178

e) 20 is a factor of 180 but not a factor of 190

Is this statement always, sometimes or never true? A number will always have an even number of factors because

factors come in factor pairs.

Θ

**(**)

# Wednesday

Common factors She arranges the counters in one row. Kim is using counters to find factors of 18

Then she arranges the counters in two rows.

a) Kim's array shows four numbers that are factors of 18

Which numbers are they?

b) What are the two other factors of 18?

c) Use counters to find the factors of 27

List the factors of 27

d) List the common factors of 18 and 27

٥

Why are these numbers common factors?

2 Complete the sentences

a) The factors of 24 are \_\_

The factors of 36 are

The common factors of 24 and 36 are

b) The factors of 30 are 1, 2, 3, 5

The factors of 45 are is S

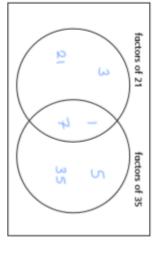
The common factors of 30 and 45 are

5

a) Write the numbers on the diagram.

21

35



b) What are the common factors of 21 and 35?

 d) How does the Venn diagram help you to list the common factors?

**(**)

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#### Wednesday

Why do you think this happens?

72 and 80

0

What do you notice?

9 and 11

49 and 21

15 and 22

0

2 and 6

3 and 8

15 and 12

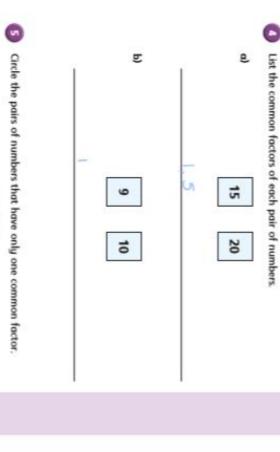
Do you agree with Mo?

of 36 are common factors of 36 and 72

All the factors

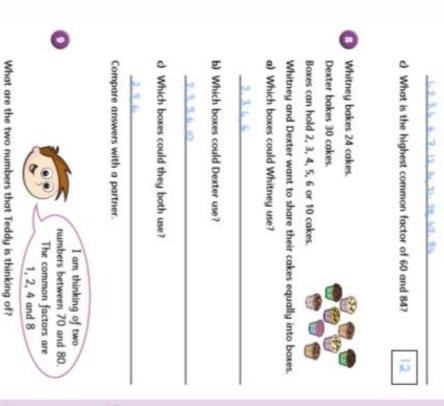
Explain your reasoning.

to cottor of



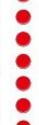
a) List the factors of 60 in order from lowest to highest

b) List the factors of 84 in order from smallest to greatest



# Friday

Prime numbers Aisha makes different arrays with 7 counters. She makes an array with 1 counter in each column.



She makes an array with 2 counters in a column.

A prime number has two factors: 1 and itself.

List the prime numbers up to 20

- 9



a) Is it possible to arrange the counters in another way so that they make a rectangular array?



00000

0000

g





ls 25 a prime number? No How do you know?

5 Here are sequences of consecutive prime numbers. Complete the sequences.

c) Explain why 7 is a prime number.

b) What are the factors of 77

and 7

Is the number prime?

Yes

2 Complete the table.

Number

1 and 5 Factors

2 = 9 ut

2 7 14

3,5,15

ξ 200 £

15

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# Friday

6 Colour all the prime numbers.

8 Mo and Alex are talking about prime numbers.

Prime numbers are always odd.

Mo

numbers can I think prime

be even.

Alex

Here are some numbers. 126 175

2,378

are big. It's hard to check

The numbers

if they are prime.

777

381

How do you know? Who is correct? \_

9,000

that none of these numbers

are prime.

I can tell quickly

Jack

Annie

How does Annie know that none of the numbers are prime?

Compare answers with a partner

**(**)

0 Teddy writes five consecutive numbers. Three of the numbers are prime

















8 Kim is thinking of a prime number.

It is in between a multiple of 11 and a factor of 48 What number is Kim thinking of?





