RECALL

How many different calculations can you write for each of these bar models?
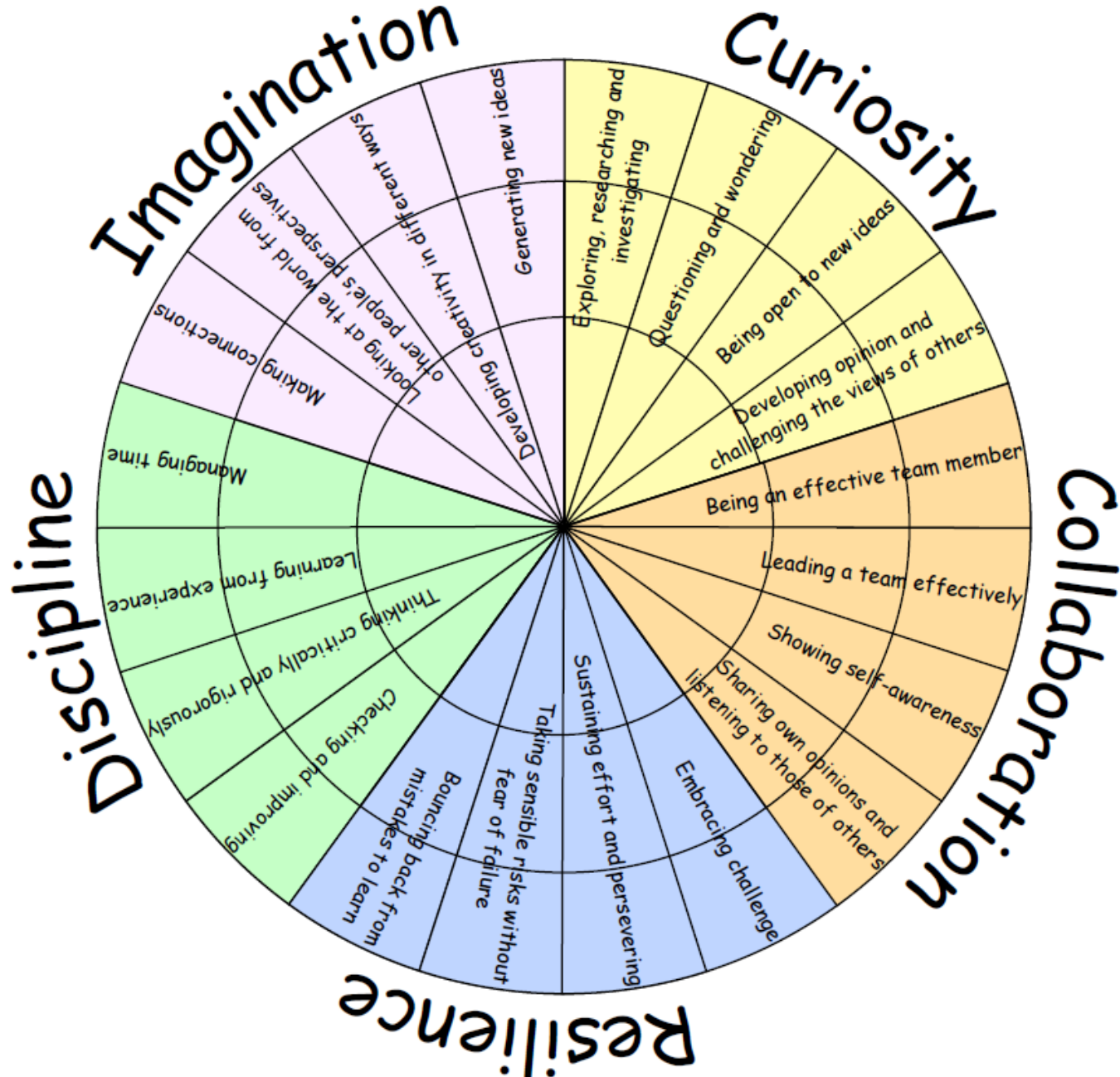
350

840

?

300
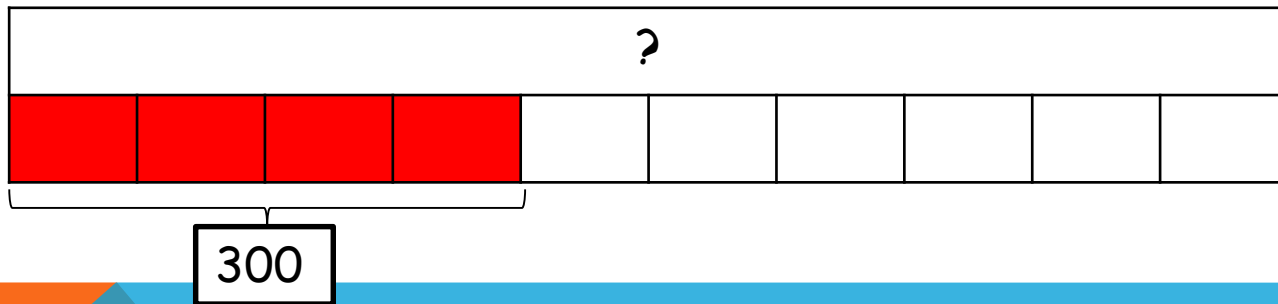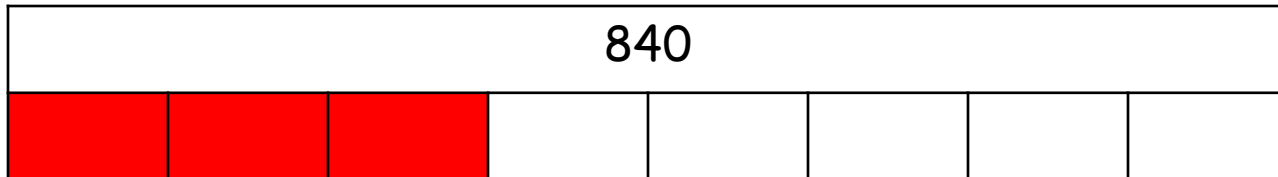
Can you make the calculation into a word problem. Think carefully about the context.

I CAN RECALL AND USE EQUIVALENCE BETWEEN FRACTIONS, DECIMALS AND % TO SOLVE PROBLEMS

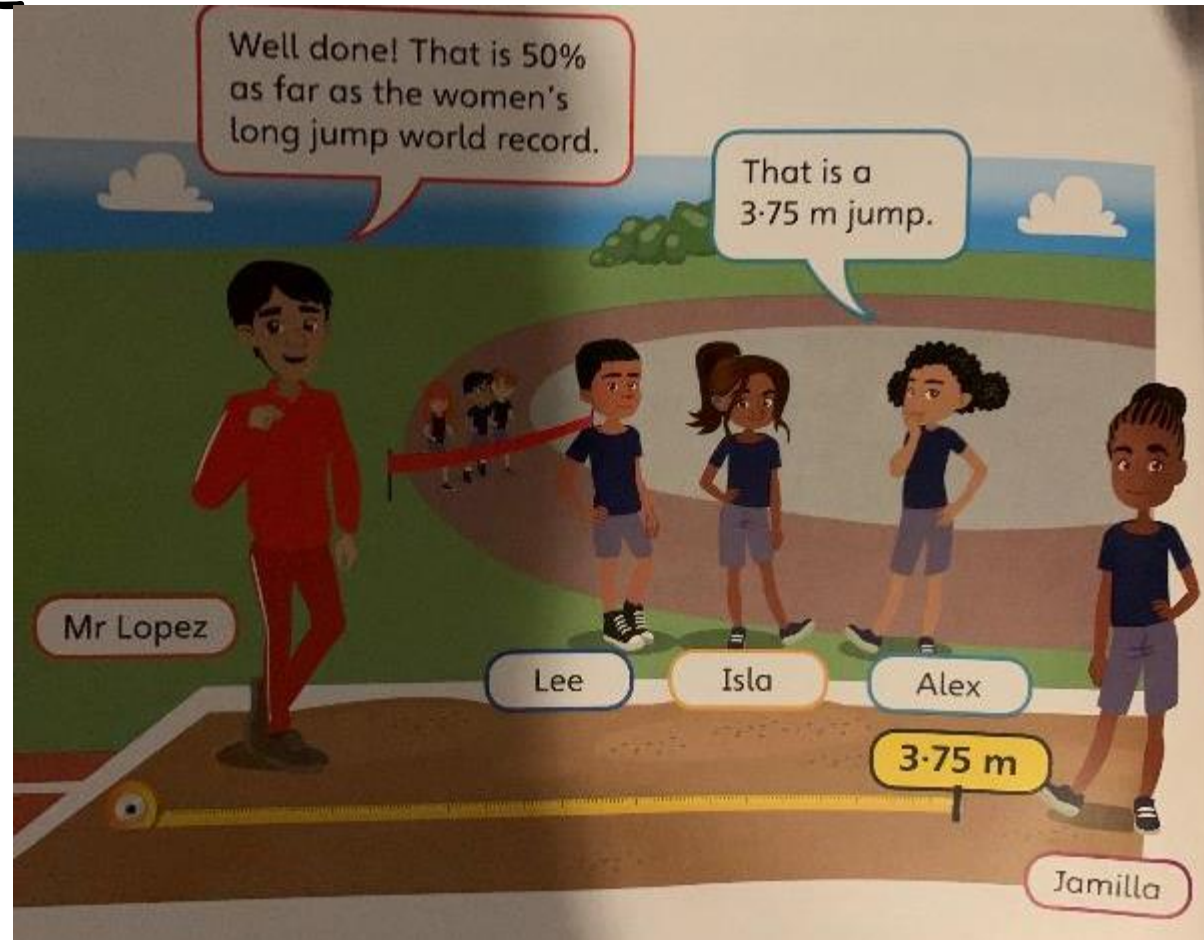Percentage (15ii)

LEARNING HABITS?

GUIDED PRACTICE

1) What is the world record for women's long jump?

2) Lee jumps 49cm in the high jump.

This is 20% of the world record for men's high jump.

What is the world record?

Well done! That is 50% as far as the women's long jump world record.

That is a 3·75 m jump.

Mr Lopez

Lee   Isla   Alex

3·75 m

Jamilla

1) Mr Hall entered the triple jump.
He jumped 13.5m.
This is 75% of the current WR.
How far is the current WR?

INTELLIGENT PRACTICE

10% of _____ = 20

10% of _____ = 40

10% of _____ = 80

10% of _____ = 135

25% of _____ = 30

25% of _____ = 60

25% of _____ = 90

25% of _____ = 160

20% of _____ = 15

20% of _____ = 30

20% of _____ = 45

20% of _____ = 240

_____ % of 400 = 100

_____ % of 300 = 225

80% of _____ = 32

_____ % of 32 = 8

INTELLIGENT PRACTICE ANSWERS

10% of 200 = 20

10% of 400 = 40

10% of 800 = 80

10% of 1350 = 135

25% of 120 = 30

25% of 240 = 60

25% of 360 = 90

25% of 640 = 160

20% of 75 = 15

20% of 150 = 30

20% of 245 = 45

20% of 1200 = 240

25 % of 400 = 100

75 % of 300 = 225
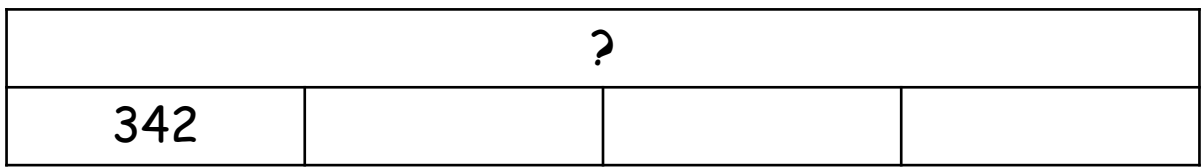
80% of 40 = 32

25 % of 32 = 8

DIVE DEEPER 1
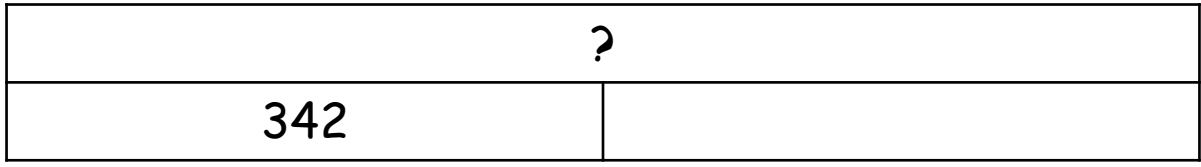
1) Complete the bar models to find the missing numbers.

a) 25% of ____ = 342
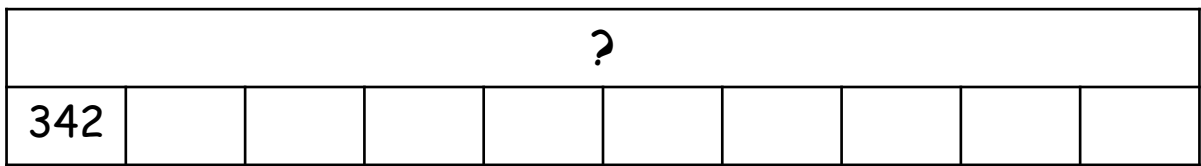
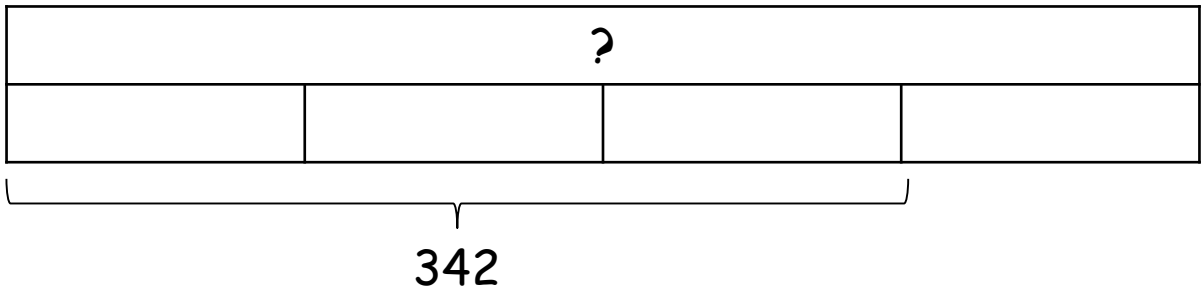| ?			
342			

a) 10% of ____ = 342

?								
342								

b) 50% of ____ = 342

?	
342	

c) 75% of ____ = 342

?			

342

2) 40% of the children in a school are boys.
There are 188 boys in total.
a) How many children are there altogether?
b) How many girls?

DIVE DEEPER 1 ANSWERS

1) Complete the bar models to find the missing numbers.

a) 25% of 1368 = 342
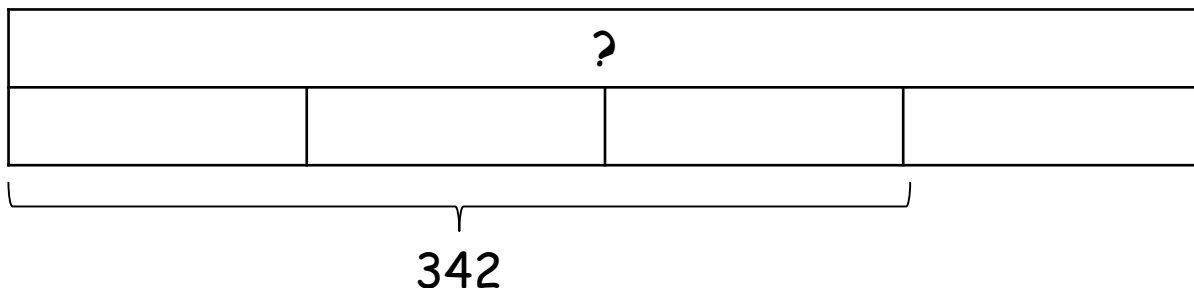
?			
342			

a) 10% of 3420 = 342

?								
342								

b) 50% of 684 = 342

?	
342	

c) 75% of 456 = 342
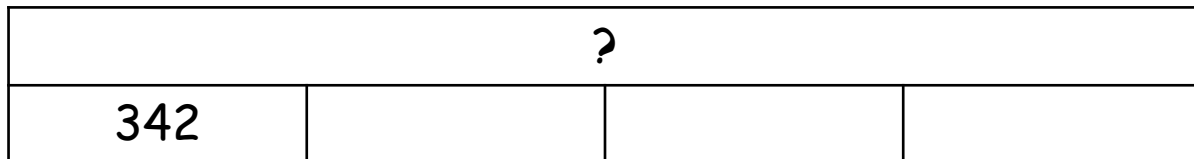
?			

342

2) 40% of the children in a school are boys.
There are 188 boys in total.
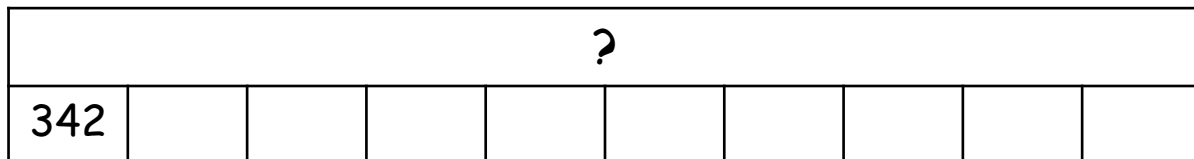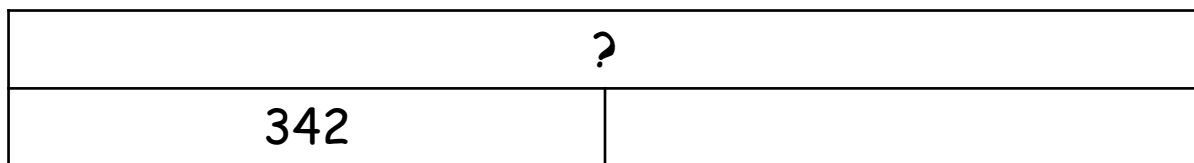a) How many children are there altogether? 470
b) How many girls? 282

DIVE DEEPER 2

3) 10% of _____ = 200

a) What mistake has Eva made?

I know that to find 10% I have to divide by 10, so the answer is 20

b) Draw a bar model to help Eva find the correct answer.

c) What is the correct answer?

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4) The table shows the number of people who visited a cinema over four days.

a) Fill in the missing information

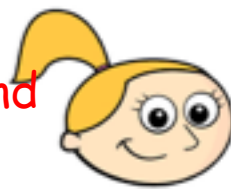b) How many more people went to the cinema on Saturday than Sunday?

a) 60% of the visitors were children. How many children went to the cinema?

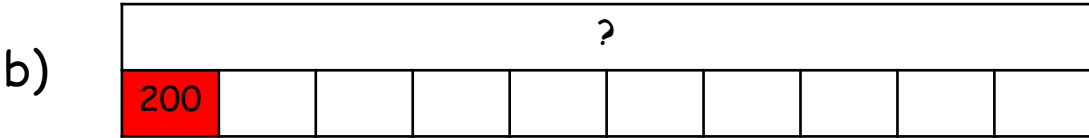| Day	Percentage of total visitors	Number of visitors
Thursday	10%	
Friday		448
Saturday	45%	
Sunday		
Total		2,240

DIVE DEEPER 2 ANSWERS

3) 10% of _____ = 200

a) What mistake has Eva made? Eva has found 10% of 200

I know that to find 10% I have to divide by 10, so the answer is 20

b)

	?								
200									

c) What is the correct answer? 2000

4) The table shows the number of people who visited a cinema over four days.

a) Fill in the missing information

b) How many more people went to the cinema on Saturday than Sunday? 448

a) 60% of the visitors were children. How many children went to the cinema? 1344

Day	Percentage of total visitors	Number of visitors
Thursday	10%	224
Friday	20%	448
Saturday	45%	1008
Sunday	25%	560
Total	100%	2,240

DIVE DEEPER 3

Find three different solutions to make the statement correct.

10% of ▲ = ⭐ % of 50

▲	⭐

What do you notice about your answers?

15% of the whole rectangle is shaded. What is the perimeter of the whole rectangle?

Height 20 cm

Width 45 cm

SELF-ASSESSMENT

- Some will even be able to write a rule for missing percentages in the question

- Some will be able to find a rule to solve missing number percentage questions

- Most will be able to relate the percentage to the equivalent fraction

- All will be able to draw a bar model to show the problem