Year 4 Maths Wednesday 10.2.21

Fractions

Recall:

1 – ¾ =

1 – 1/3 =

1 – 5/6 =

1 – ½ =

2 – 4/6 =

2 – 6/4 =

Recall:

1 – ¾ = ¼

1 – 1/3 = 2/3

1 – 5/6 = 1/6

1 – ½ = 1/2

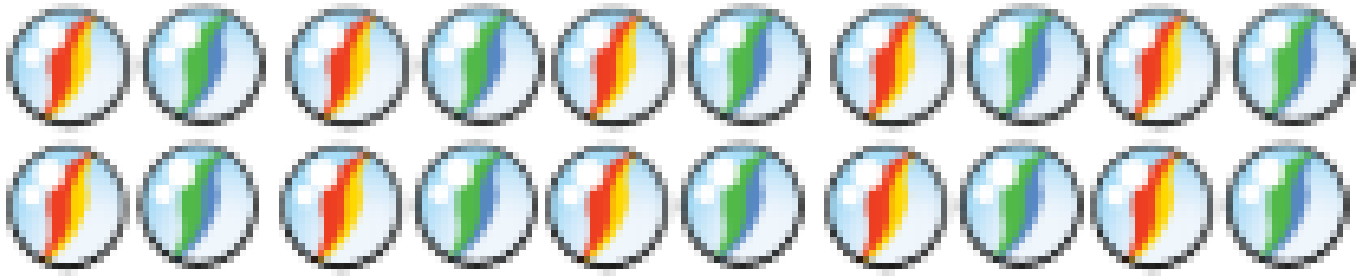
2 – 4/6 = 1 2/6

2 – 6/4 = 2/4

LO: I can find a fraction of an amount

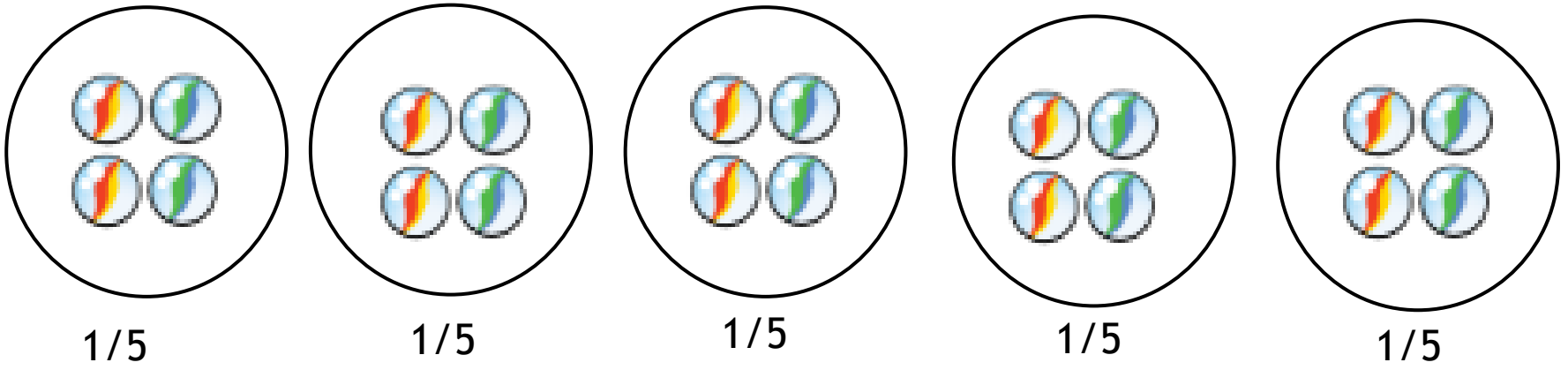
Guided Practice:

Find $\frac{1}{5}$ of Eva's marbles.



How might we find the answer to this problem?

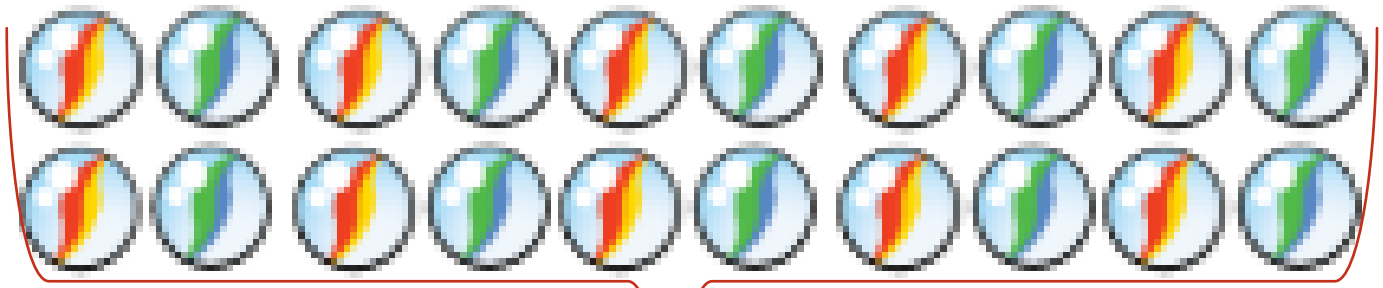
Guided Practice: Find $\frac{1}{5}$ of Eva's marbles.



Strategy 1: Draw circles to represent the fractions (in this case fifths) and then share the amount equally between the fraction parts.

Guided Practice:

Find $\frac{1}{5}$ of Eva's marbles.



20 divided by 5 = 4

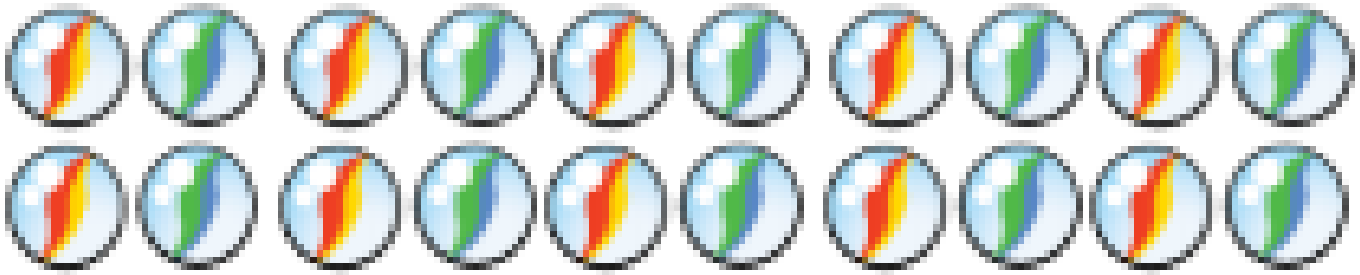
4 = 1/5

20 Marbles

Strategy 2: Use your knowledge of division. Find the total amount and then divide by the denominator

Guided Practice:

Find $\frac{1}{5}$ of Eva's marbles.



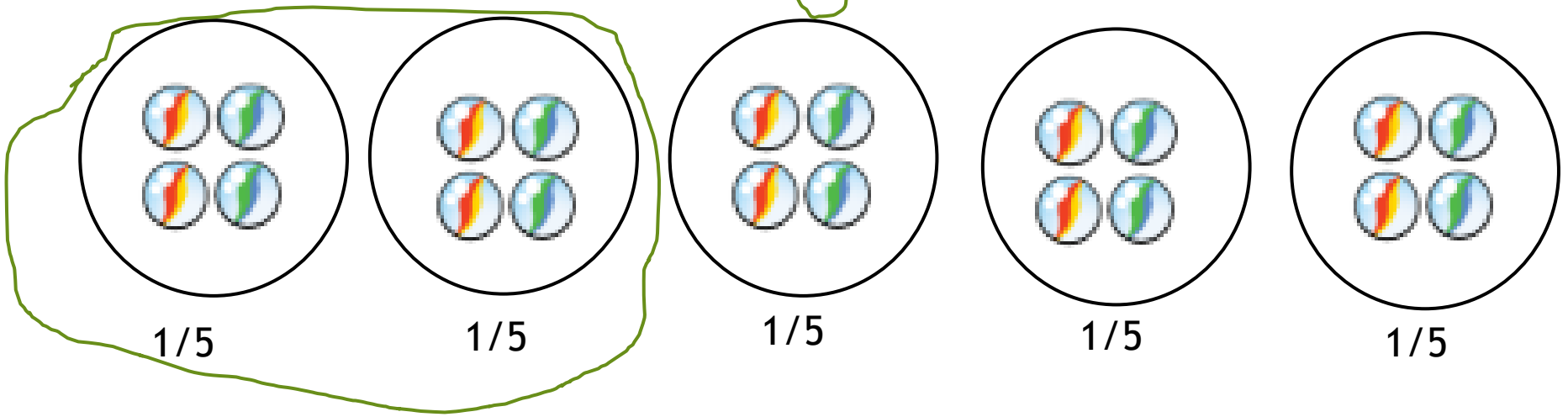
Strategy 3

We could structure it as a bar model

20				
4	4	4	4	4

Guided Practice:

What if we needed to find 2/5 of 20?

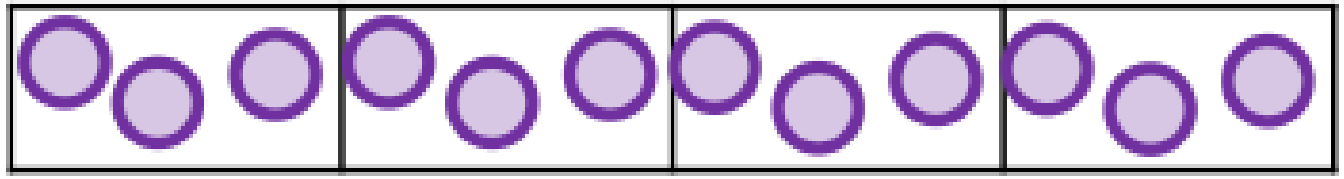


20				
4	4	4	4	4

Find 1/5 and then multiply it by the numerator

Intelligent practice:

Dexter has used a bar model and counters to find $\frac{1}{4}$ of 12

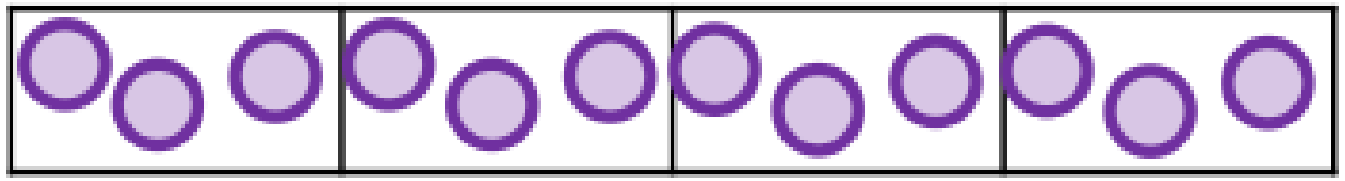


Use Dexter's method to calculate:

$\frac{1}{6}$ of 12 $\frac{1}{3}$ of 12 $\frac{1}{3}$ of 18 $\frac{1}{9}$ of 18

Intelligent practice:

Dexter has used a bar model and counters to find $\frac{1}{4}$ of 12



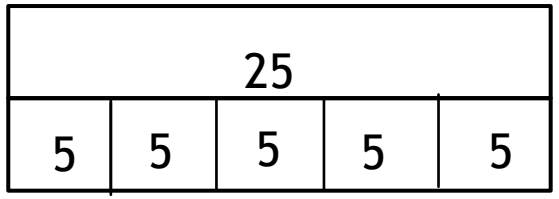
Use Dexter's method to calculate:

$\frac{1}{6}$ of 12 = 2 $\frac{1}{3}$ of 12 = 4 $\frac{1}{3}$ of 18= 6 $\frac{1}{9}$ of 18 = 2

Intelligent practice:

Use bar models or diagrams to find the following. Remember to divide by the denominator first!

4/5 of 25 =



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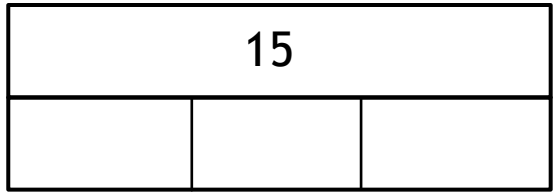
2/3 of 15 =



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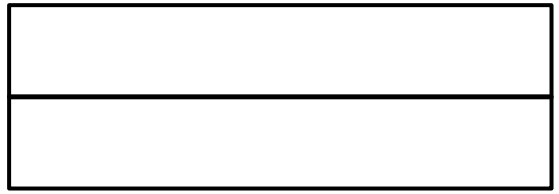
¾ of 16 =



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Intelligent practice:

Use bar models or diagrams to find the following. Remember to divide by the denominator first!

4/5 of 25 =

25				
5	5	5	5	5

= 20

2/3 of 15 =

15		
5	5	5

= 10

¾ of 16 =

16			
4	4	4	4

= 12

Intelligent practice

Amir uses a bar model and place value counters to find three quarters of 84

Use Amir's method to find:

$\frac{2}{3}$ of 36 $\frac{2}{3}$ of 45 $\frac{3}{5}$ of 55

If at home, simply write 10 or 1 for each tens and units counter you add to your bar model

Intelligent practice

Amir uses a bar model and place value counters to find three quarters of 84

Use Amir's method to find:

$\frac{2}{3}$ of 36 → 24

$\frac{2}{3}$ of 45 → 30

$\frac{3}{5}$ of 55 → 33

Dive deeper 1:

Whitney has 12 chocolates.

On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?

Dive deeper 1: Answers

Whitney has 12 chocolates.

On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?

Whitney has two chocolates left.

Dive deeper 2:

Ron has £28

On Friday, he spent $\frac{1}{4}$ of his money.

On Saturday, he spent $\frac{2}{3}$ of his remaining money and gave £2 to his sister.

On Sunday, he spent $\frac{1}{5}$ of his remaining money.

How much money does Ron have left?

What fraction of his original amount is this?

Dive deeper 2: Answers

Ron has £28

On Friday, he spent $\frac{1}{4}$ of his money.

On Saturday, he spent $\frac{2}{3}$ of his remaining money and gave £2 to his sister.

On Sunday, he spent $\frac{1}{5}$ of his remaining money.

How much money does Ron have left?

What fraction of his original amount is this?

Ron has £4 left.

This is $\frac{1}{7}$ of his original amount.