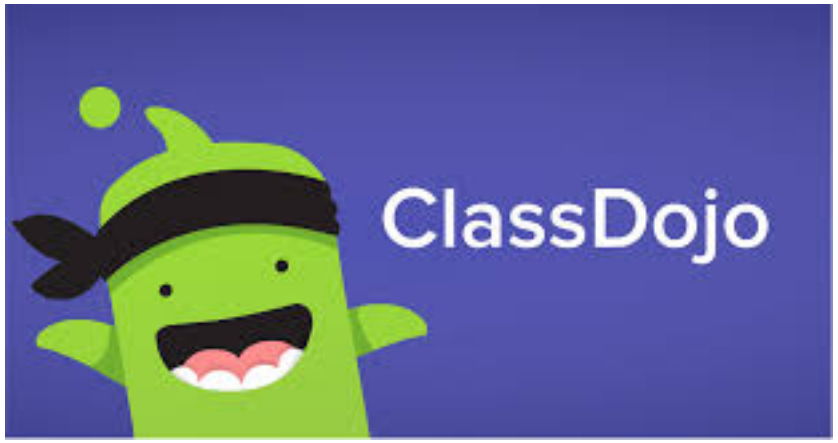
Year 3
Maths Lesson

29.1.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

On this maths powerpoint:

- 1 warm up activity
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!

Maths Lesson

Write out your objective and date in your exercise book.

29.1.21

Objective: Can I find non-unit fractions of numbers?

1/5 of 10 = 2

This is a **unit** fraction

2/5 of 10 = 4

This is a **non-unit** fraction

Warm Up Activity

Practise dividing by 5, 10, 3 and 4.

Easier

1. 25 ÷ 5 =
2. 20 ÷ 10 =
3. 15 ÷ 5 =
4. 50 ÷ 10 =
5. 30 ÷ 5 =
6. 70 ÷ 10 =
7. 35 ÷ 5 =
8. 90 ÷ 10 =
9. 45 ÷ 5 =
10. 100 ÷ 10 =

Harder

1. 12 ÷ 3 =
2. 20 ÷ 4 =
3. 30 ÷ 3 =
4. 16 ÷ 4 =
5. 27 ÷ 3 =
6. 40 ÷ 4 =
7. 15 ÷ 3 =
8. 24 ÷ 4 =
9. 24 ÷ 3 =
10. 8 ÷ 4 =

Answers on the next page – no peeking!

Warm Up Activity

Answers!

Easier

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2. 20 ÷ 10 =
3. 15 ÷ 5 =
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5. 30 ÷ 5 =
6. 70 ÷ 10 =
7. 35 ÷ 5 =
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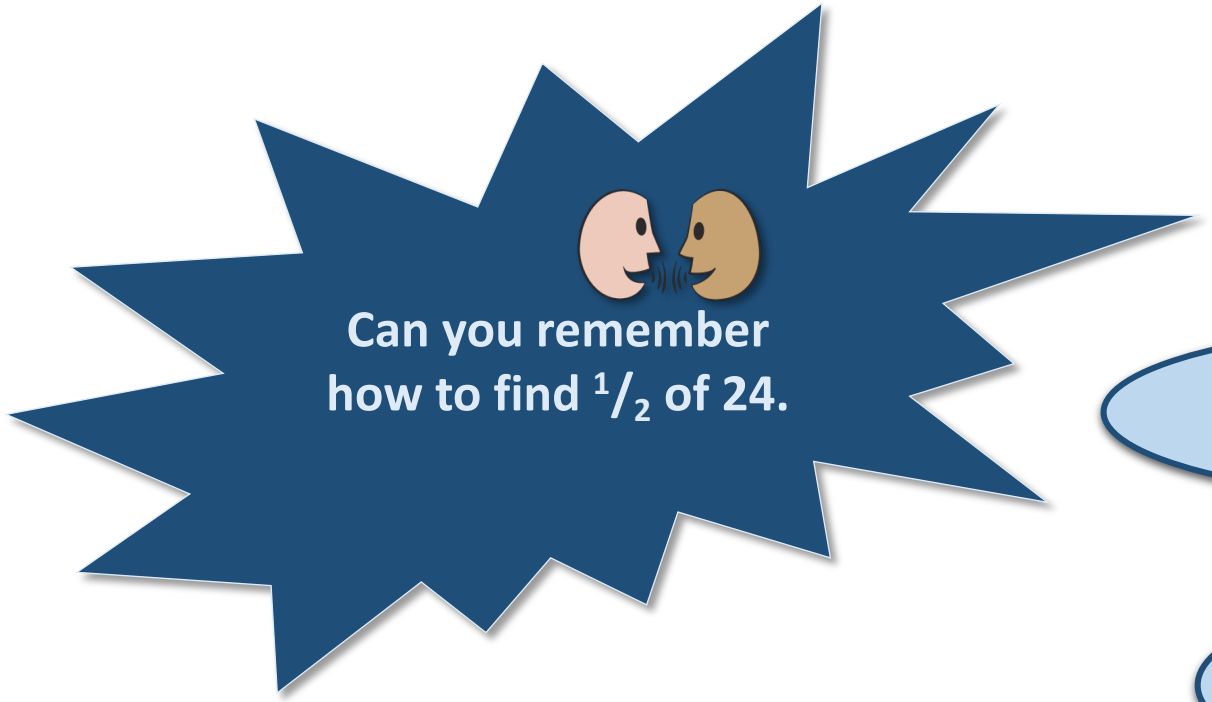
Harder

1. 12 ÷ 3 =
2. 20 ÷ 4 =
3. 30 ÷ 3 =
4. 16 ÷ 4 =
5. 27 ÷ 3 =
6. 40 ÷ 4 =
7. 15 ÷ 3 =
8. 24 ÷ 4 =
9. 24 ÷ 3 =
10. 8 ÷ 4 =

Now mark your work.

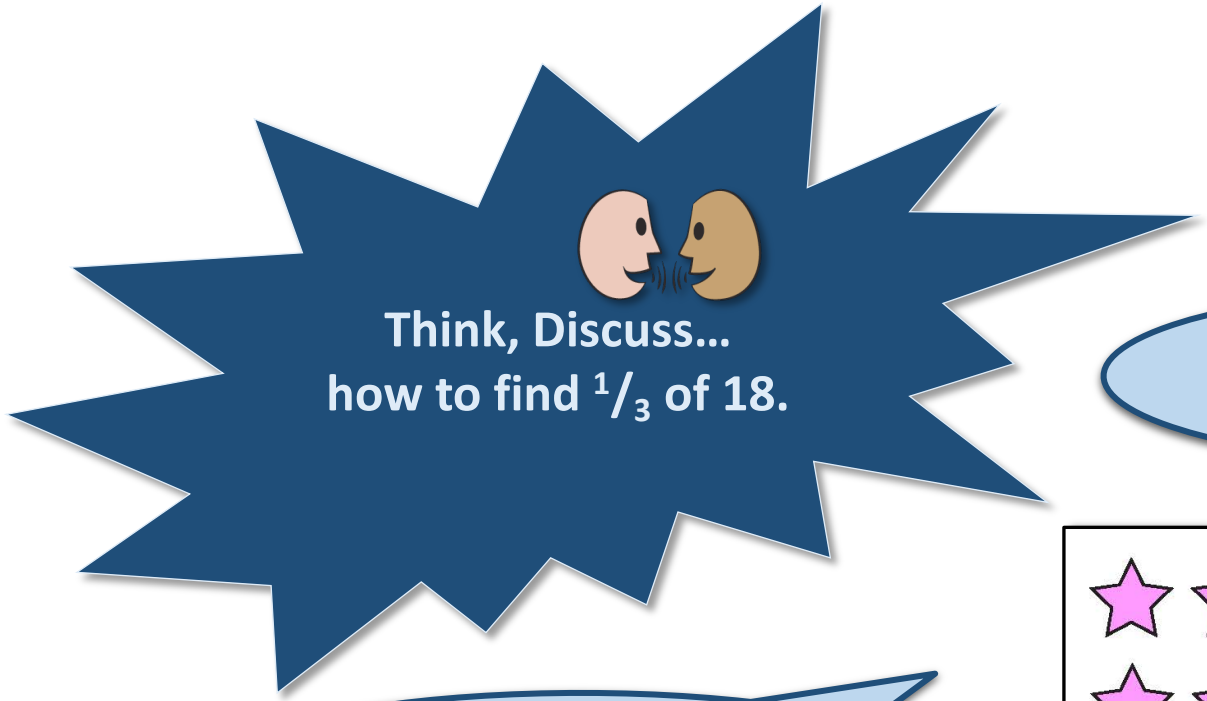
How did you do?



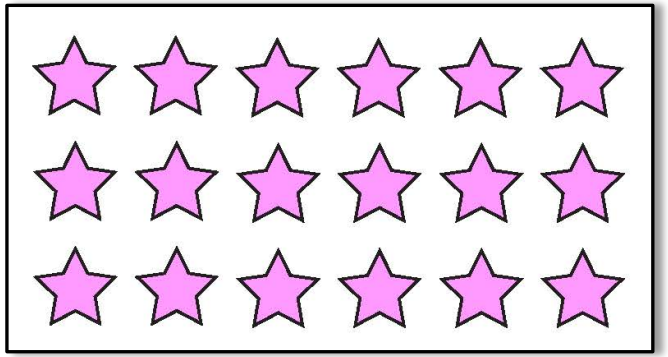
Can you remember how to find $^1/_2$ of 24.

We can **divide** 24 by 2.

$^1/_2$ of 24 = 12



We can **divide** 18 by 3.

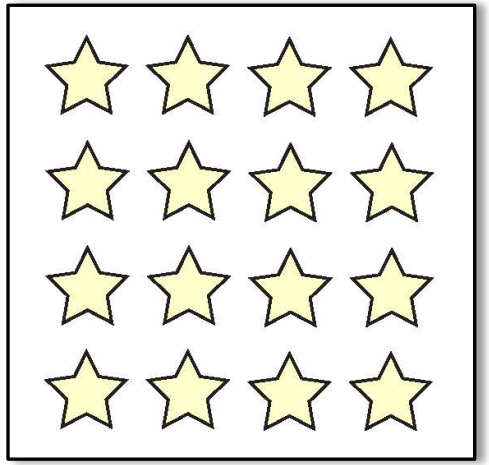


We can use a 3 by 6 array to check.

$\frac{1}{3}$ of 18 = ?

$\frac{2}{3}$ of 18 = ?

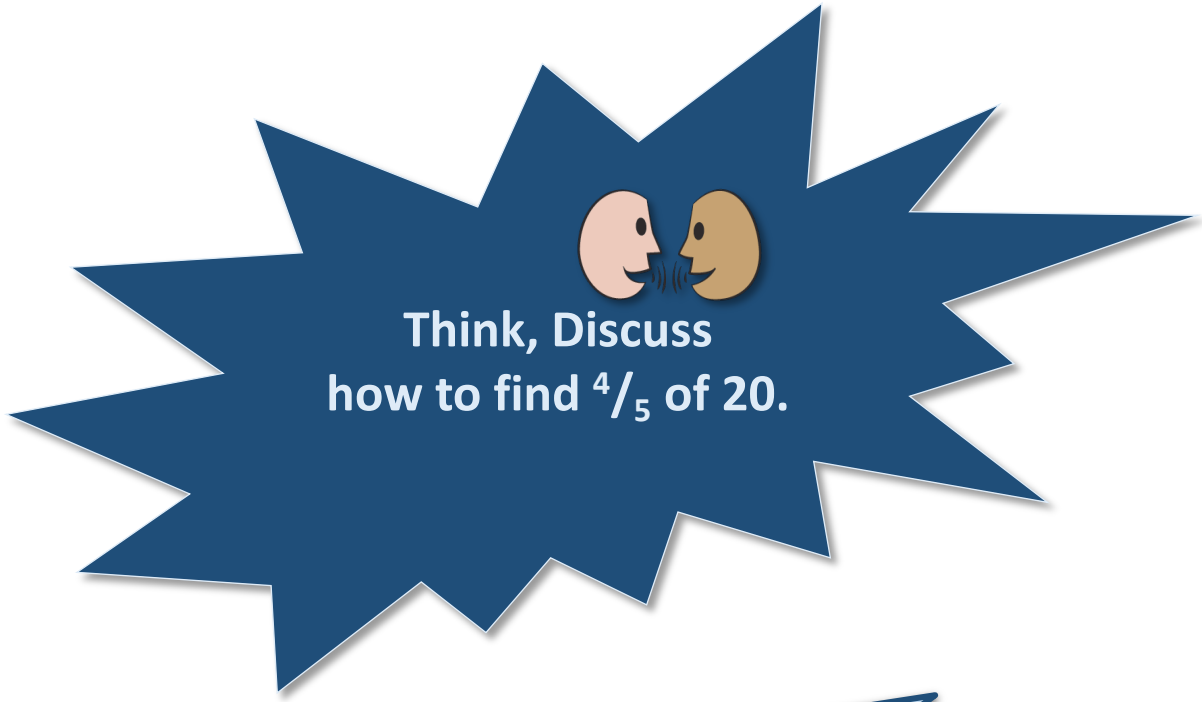
Think, Discuss
how to find $^3/_4$ of 16.
How can the array
help?

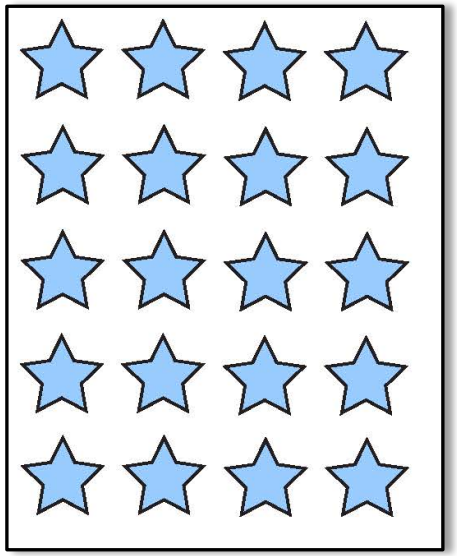


We can **divide 16 by 4** to find $^1/_4$ …

…then **multiply by 3** to find $^3/_4$…

$^3/_4$ of 16 = ?





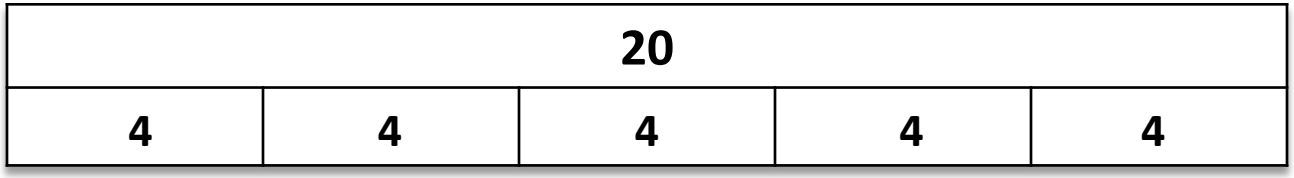
We can **divide 20 by 5** to find $^1/_5$...

$^4/_5$ **of 20 = ?**

...then **multiply by 4** to find $^4/_5$.

We can use this bar model to find fifths of 20.

How much is $^{1}/_{5}$ of 20?
What division fact can help?



Let's put 4 in each section…

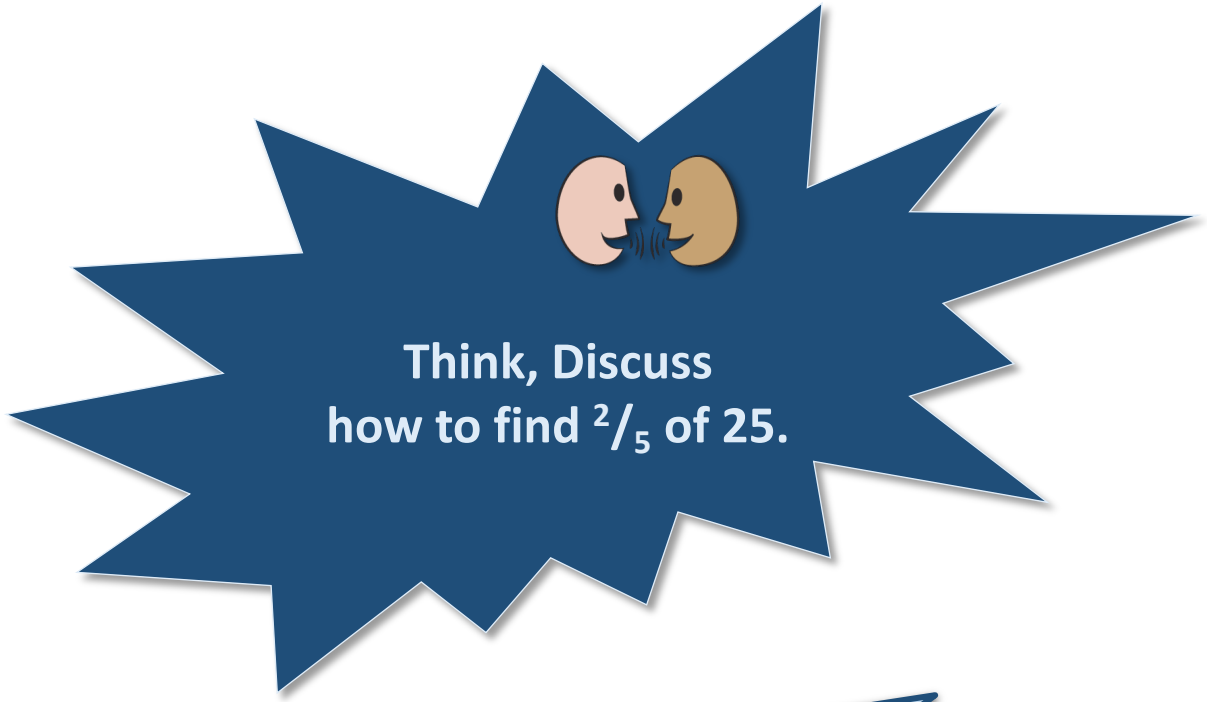
Five 4s are 20!

How much is $^{2}/_{5}$ of 20?

$^{3}/_{5}$ of 20?

$^{4}/_{5}$ of 20?

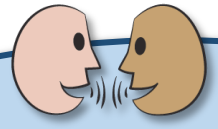
$^{5}/_{5}$ of 20?



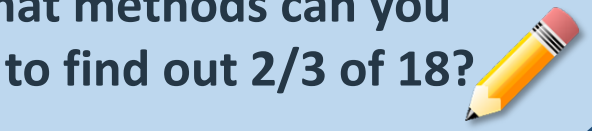
We can **divide 25 by 5** to find $^{1}/_{5}$....

…then **multiply by 2** to **find $^{2}/_{5}$.**

$^{2}/_{5}$ of 25 = ?

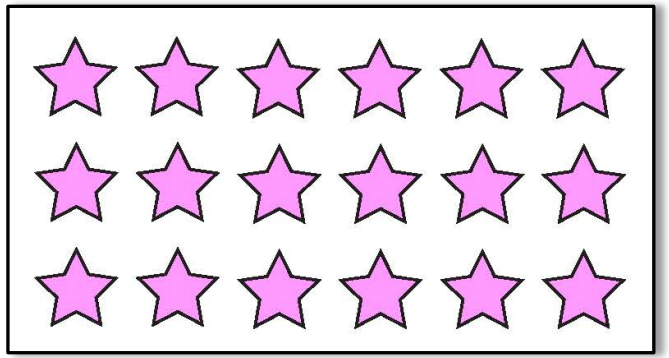


What methods can you use to find out 2/3 of 18?



You could include bar models…

Arrays….



.. and times tables facts..

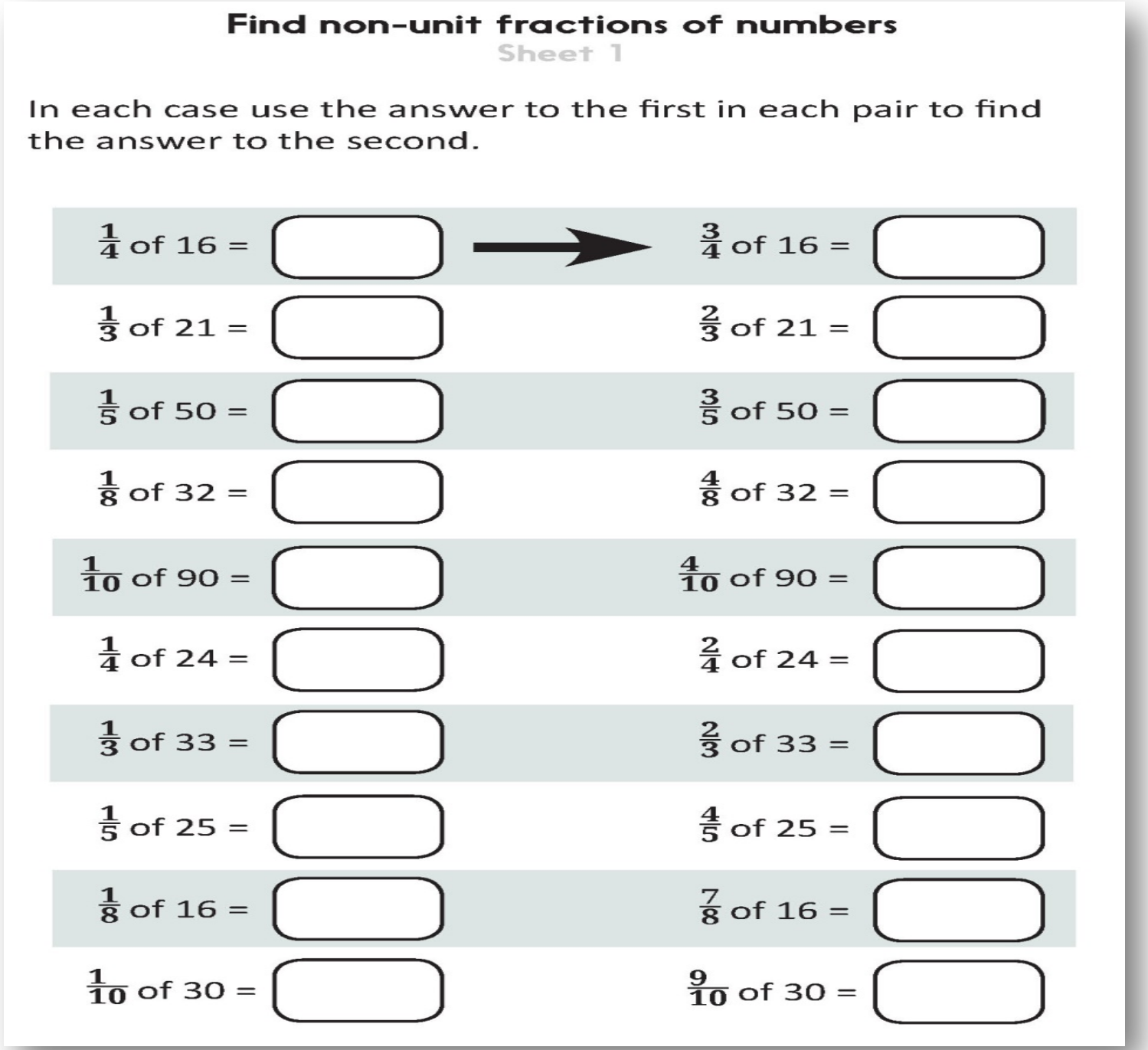
To find $^{2}/_{3}$ of 18:
18 ÷ 3 = 6 , 2 × 6 = 12.

Task

Now try these:

Which method are you going to use?

1. Draw an array?
2. Draw a bar model?
3. Use your times tables?



Find non-unit fractions of numbers

Sheet 1

In each case use the answer to the first in each pair to find the answer to the second.

$\frac{1}{4}$ of 16 = ☐ →	$\frac{3}{4}$ of 16 = ☐
$\frac{1}{3}$ of 21 = ☐	$\frac{2}{3}$ of 21 = ☐
$\frac{1}{5}$ of 50 = ☐	$\frac{3}{5}$ of 50 = ☐
$\frac{1}{8}$ of 32 = ☐	$\frac{4}{8}$ of 32 = ☐
$\frac{1}{10}$ of 90 = ☐	$\frac{4}{10}$ of 90 = ☐
$\frac{1}{4}$ of 24 = ☐	$\frac{2}{4}$ of 24 = ☐
$\frac{1}{3}$ of 33 = ☐	$\frac{2}{3}$ of 33 = ☐
$\frac{1}{5}$ of 25 = ☐	$\frac{4}{5}$ of 25 = ☐
$\frac{1}{8}$ of 16 = ☐	$\frac{7}{8}$ of 16 = ☐
$\frac{1}{10}$ of 30 = ☐	$\frac{9}{10}$ of 30 = ☐

Find non-unit fractions of numbers

Sheet 2

$\frac{1}{5}$ of 45 is ____. What is $\frac{3}{5}$ of 45? ____

$\frac{1}{4}$ of 32 is ____. What is $\frac{3}{4}$ of 32? ____

$\frac{1}{3}$ of 27 is ____. What is $\frac{2}{3}$ of 27? ____

$\frac{1}{8}$ of 24 is ____. What is $\frac{5}{8}$ of 24? ____

$\frac{1}{5}$ of 30 is ____. What is $\frac{2}{5}$ of 30? ____

$\frac{1}{4}$ of 24 is ____. What is $\frac{3}{4}$ of 24? ____

$\frac{1}{3}$ of 24 is ____. What is $\frac{2}{3}$ of 24? ____

$\frac{1}{8}$ of 40 is ____. What is $\frac{6}{8}$ of 40? ____

Now try these:

Which method are you going to use?

1. Draw an array?
2. Draw a bar model?
3. Use your times tables?

Challenge

Challenge

My sister ate $\frac{3}{4}$ of my bag of 16 sweets.
How many did she eat?

My brother will give me $\frac{3}{8}$ of his pocket money if I tidy his bedroom.
He has 80p, how much will he give me?

Fun Activity – Play this online maths game.

https://www.bbc.co.uk/games/embed/karate-cats-2?exitGameUrl=https%3A%2F%2Fbbc.co.uk%2Fbitesize%2Farticles%2Fzf4sscw

How did you do?

Don’t forget to post your work on Class Dojo!