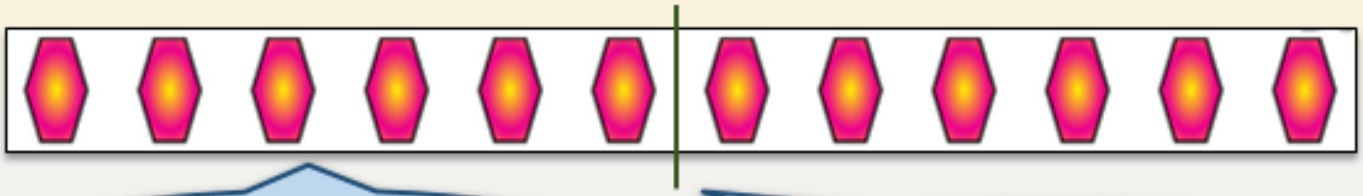
Learning Reminders

Find unit fractions of quantities and link to division facts.

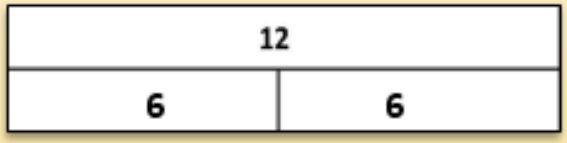


Imagine folding this strip of 12 shapes in **half...**

What is $^1/_2$ **of 12?**

We can also use a **bar model** to show half of 12.

To find $^1/_2$, **divide by 2.**



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Learning Reminders

Find unit fractions of quantities and link to division facts.

Fold your strip in half and half again so that you have **4 equal parts.** What do we call each part?

What is $^1/_4$ of 12?

We can also use a **bar model** to show $^1/_4$ of 12.

12			
3	3	3	3

To find $^1/_4$, **divide by 4.**

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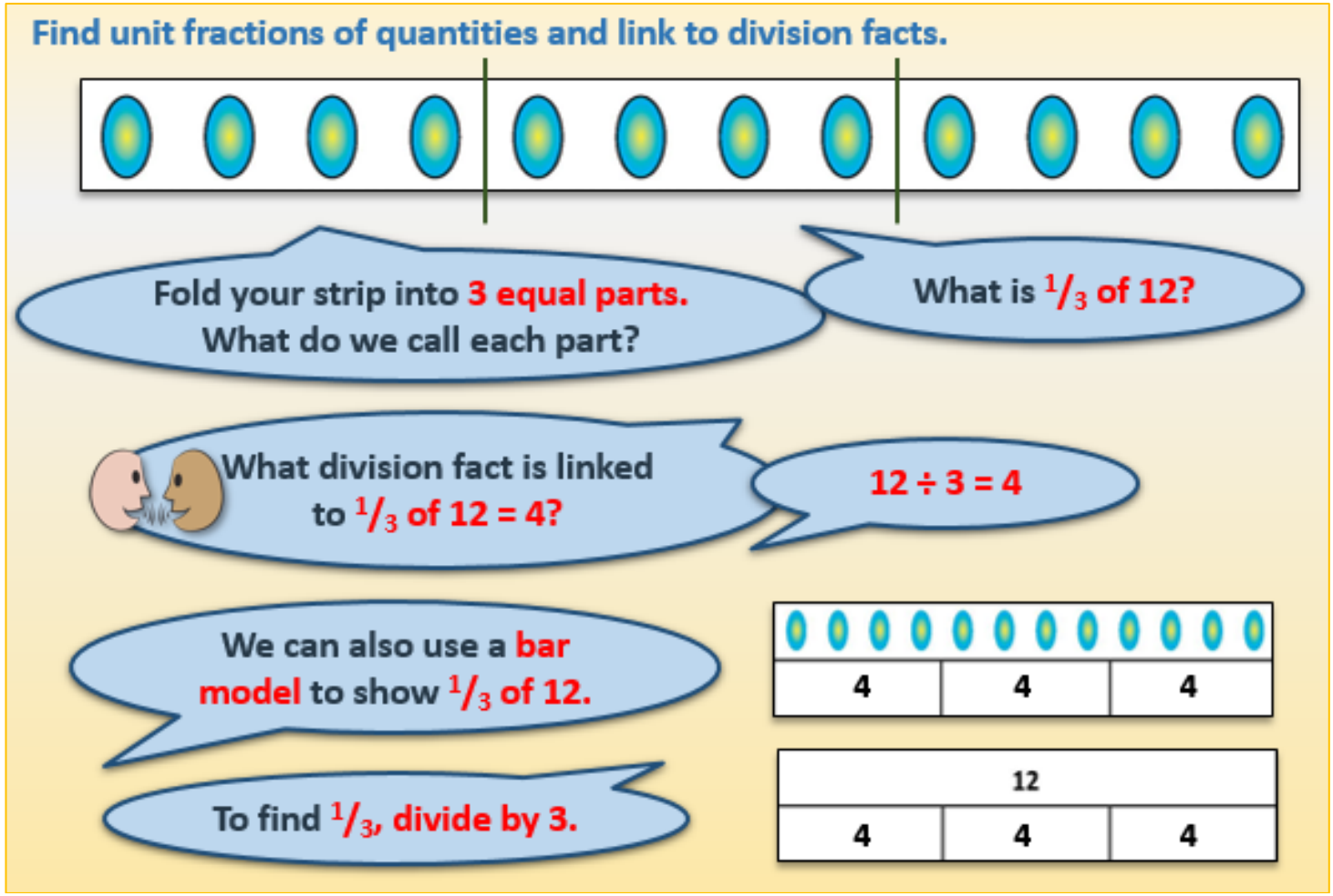
Learning Reminders



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Practice Sheet Mild

Fractions practice

16	

$\frac{1}{2}$ of 16 = ☐

16			

$\frac{1}{4}$ of 16 = ☐

20	

$\frac{1}{2}$ of 20 = ☐

20			

$\frac{1}{4}$ of 20 = ☐

20				

$\frac{1}{5}$ of 20 = ☐

$\frac{1}{2}$ of 40 = ☐

$\frac{1}{4}$ of 40 = ☐

$\frac{1}{5}$ of 40 = ☐

$\frac{1}{5}$ of 35 = ☐

$\frac{1}{2}$ of 14 = ☐

$\frac{1}{4}$ of 28 = ☐

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Practice Sheet Hot

Fractions practice

$\frac{1}{2}$ of 16 = ☐

$\frac{1}{4}$ of 16 = ☐

$\frac{1}{8}$ of 16 = ☐

$\frac{1}{2}$ of 20 = ☐

$\frac{1}{4}$ of 20 = ☐

$\frac{1}{5}$ of 20 = ☐

$\frac{1}{10}$ of 20 = ☐

$\frac{1}{2}$ of 30 = ☐

$\frac{1}{3}$ of 30 = ☐

$\frac{1}{5}$ of 30 = ☐

$\frac{1}{10}$ of 30 = ☐

$\frac{1}{2}$ of 40 = ☐

$\frac{1}{4}$ of 40 = ☐

$\frac{1}{5}$ of 40 = ☐

$\frac{1}{8}$ of 40 = ☐

$\frac{1}{10}$ of 40 = ☐

Challenge

What different fractions can you find of 36?

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Practice Sheet Answers

Fractions practice (Mild)

$\frac{1}{2}$ of 16 = 8
$\frac{1}{4}$ of 16 = 4

$\frac{1}{2}$ of 40 = 20
$\frac{1}{4}$ of 40 = 10
$\frac{1}{5}$ of 40 = 8

$\frac{1}{2}$ of 20 = 10
$\frac{1}{4}$ of 20 = 5
$\frac{1}{5}$ of 20 = 4

$\frac{1}{5}$ of 35 = 7
$\frac{1}{2}$ of 14 = 7
$\frac{1}{4}$ of 28 = 7

Fractions practice (Hot)

$\frac{1}{2}$ of 16 = 8
$\frac{1}{4}$ of 16 = 4
$\frac{1}{8}$ of 16 = 2

$\frac{1}{2}$ of 20 = 10
$\frac{1}{4}$ of 20 = 5
$\frac{1}{5}$ of 20 = 4
$\frac{1}{10}$ of 20 = 2

$\frac{1}{2}$ of 30 = 15
$\frac{1}{3}$ of 30 = 10
$\frac{1}{5}$ of 30 = 6
$\frac{1}{10}$ of 30 = 3

$\frac{1}{2}$ of 40 = 20
$\frac{1}{4}$ of 40 = 10
$\frac{1}{5}$ of 40 = 8
$\frac{1}{8}$ of 40 = 5
$\frac{1}{10}$ of 40 = 4

Challenge

What different fractions can you find of 36?

Children's answers could include:

$\frac{1}{2}$ of 36 = 18
$\frac{1}{4}$ of 36 = 9
$\frac{3}{4}$ of 36 = 27
$\frac{1}{3}$ of 36 = 12
$\frac{2}{3}$ of 36 = 24

$\frac{1}{6}$ of 36 = 6
$\frac{2}{6}$ of 36 = 12
$\frac{3}{6}$ of 36 = 18
$\frac{4}{6}$ of 36 = 24
$\frac{5}{6}$ of 36 = 30

$\frac{1}{9}$ of 36 = 4
$\frac{2}{9}$ of 36 = 8
$\frac{4}{9}$ of 36 = 16
$\frac{5}{9}$ of 36 = 20
$\frac{7}{9}$ of 36 = 28
$\frac{8}{9}$ of 36 = 32

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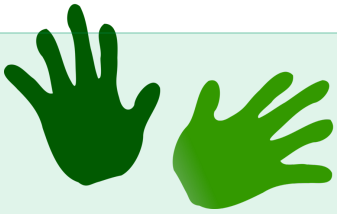
A Bit Stuck?
Alien adventure

Work in pairs

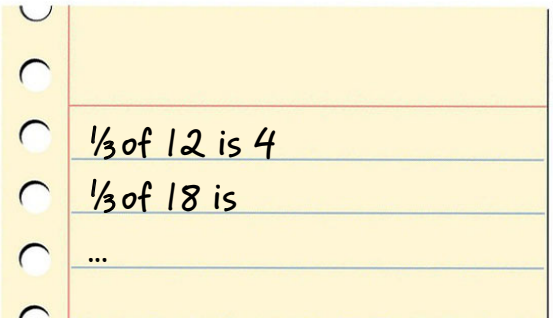
Things you will need:

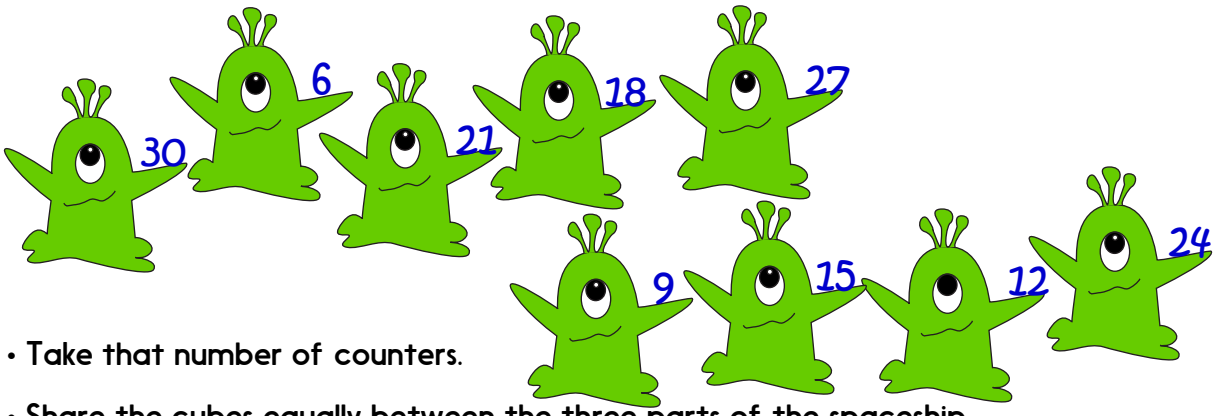
- An outline of a spaceship
- 30 counters/pennies
- A pencil



What to do:

- The aliens are going on an adventure!
- Each ⅓ of the spaceship must have the same number of aliens. Otherwise the spaceship will become unstable.
- Choose an alien with a number.





- Take that number of counters.
- Share the cubes equally between the three parts of the spaceship.
- Write the fraction sentence.
- Choose at least four other aliens with numbers to go on an adventure. Each time, work out how many aliens need to be in each ⅓ of the spaceship.

S-t-r-e-t-c-h:

Find ⅓ of 12, ⅔ of 12 and ⅓ of 12.

Find ⅓, ⅔ and ⅓ of another number of aliens.

Learning outcomes:

- I can understand that thirds are equal parts of a whole.
- I can find ⅓ of numbers (whole number answers)
- I am beginning to find ⅔ of numbers (whole number answers).

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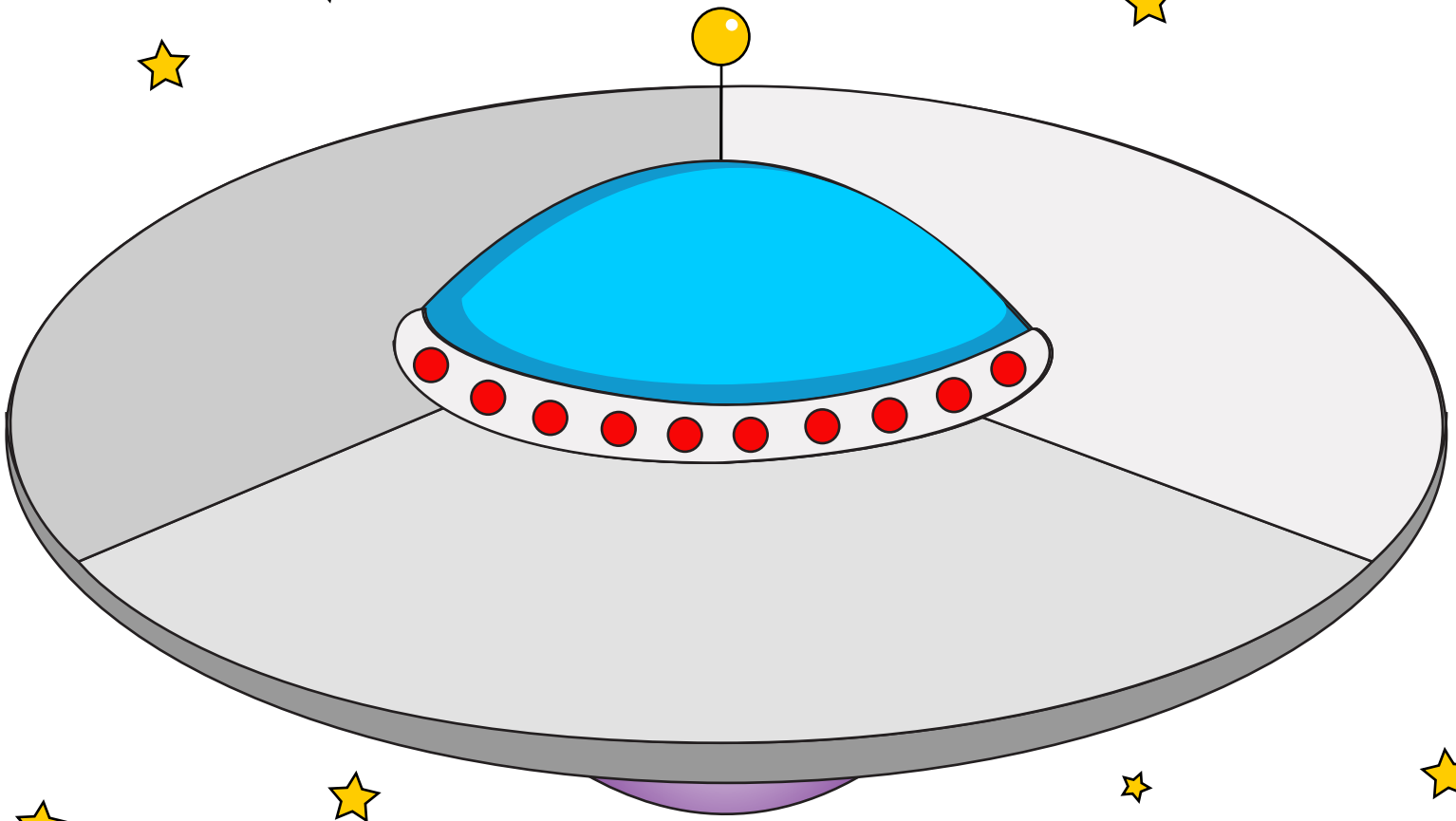
A Bit Stuck?
Alien adventure



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Check your understanding:

Questions

Complete each sentence:

$^1/_3$ of 15 = ☐

$^1/_5$ of 40 = ☐

$^1/_6$ of 24 = ☐

Draw three bar models, one to represent each of these fraction problems.

$^1/_3$ of 24

$^1/_8$ of 24

$^1/_5$ of 30

Answers on next page

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Check your understanding:

Answers

Complete each sentence:

$^1/_3$ of 15 = 5

$^1/_5$ of 40 = 8

$^1/_6$ of 24 = 4

Draw three bar models, one to represent each of these fraction problems. A common error is to write the denominator number rather than the fractional amount in the bar model cells.

$^1/_3$ of 24 = 8

24		
8	8	8

$^1/_8$ of 24 = 3

24							
3	3	3	3	3	3	3	3

$^1/_5$ of 30 = 6

30				
6	6	6	6	6

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