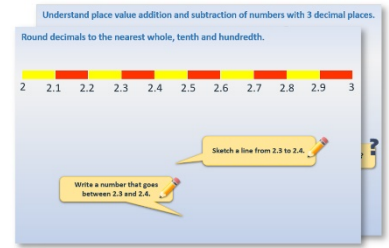


Year 3: Week 2, Day 5

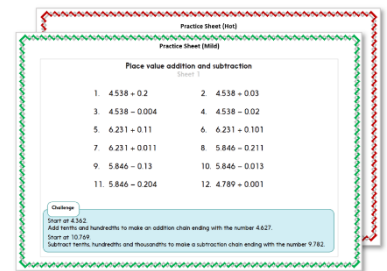
Fractions

Each day covers one maths topic. It should take you about 1 hour or just a little more.

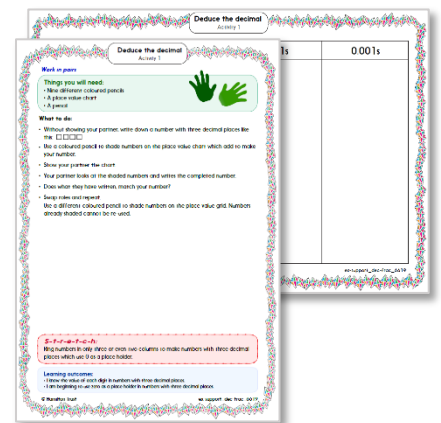
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



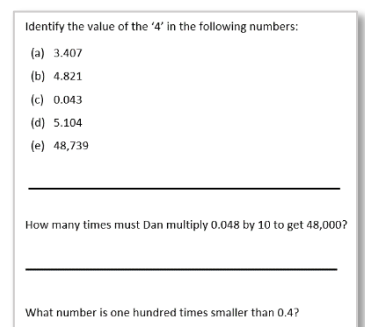
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



Learning Reminders

Find $\frac{1}{3}$ and $\frac{2}{3}$ of quantities.

There are **5 smiley faces** on each **third** of the paper...

How many smiley faces altogether?

What is $\frac{1}{3}$ of 15? How can you be sure?

$$\frac{1}{3} \text{ of } 15 = 5$$

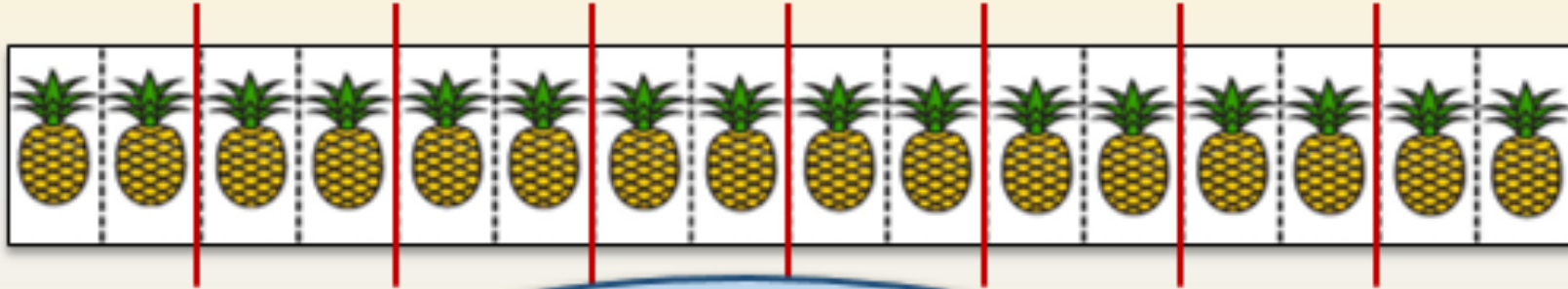


What is $\frac{2}{3}$ of 15? How can you be sure?

$$\frac{2}{3} \text{ of } 15 = 10$$

Learning Reminders

Find fractions of amounts (quarters and eighths).



We can use this fraction strip to write about **fractions of 16.**

$\frac{1}{2}$ of 16 is 8.

$\frac{1}{4}$ of 16 is 4.

What is $\frac{2}{4}$ of 16?

$\frac{1}{8}$ of 16 is 2?

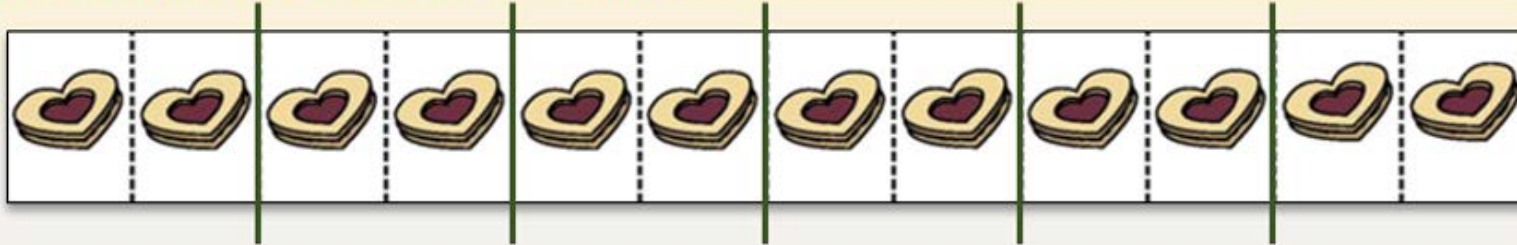
What is $\frac{3}{8}$ of 16?



Suppose you had a strip of **24 objects.** How many would **half** be? And $\frac{1}{4}$? And $\frac{1}{8}$?

Learning Reminders

Find fractions of amounts (sixths).



We can use this strip to write about **fractions of 12.**

$\frac{1}{6}$ of 12 is 2

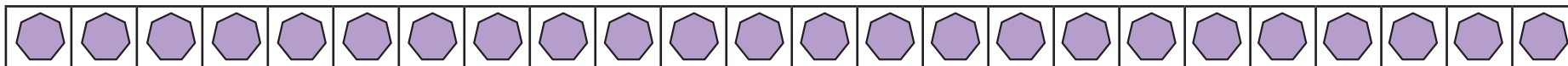
What is $\frac{5}{6}$ of 12?

What is $\frac{3}{6}$ of 12? This is the same as $\frac{1}{2}$!

What is $\frac{4}{6}$ of 12? This is the same as $\frac{2}{3}$!

Practice Sheet Mild

Fractions practice



$$\frac{1}{2} \text{ of } 24 = \boxed{}$$

$$\frac{1}{8} \text{ of } 24 = \boxed{}$$

$$\frac{1}{4} \text{ of } 24 = \boxed{}$$

$$\frac{3}{8} \text{ of } 24 = \boxed{}$$

$$\frac{2}{4} \text{ of } 24 = \boxed{}$$

$$\frac{5}{8} \text{ of } 24 = \boxed{}$$

$$\frac{3}{4} \text{ of } 24 = \boxed{}$$

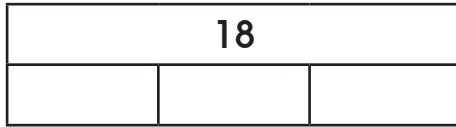
$$\frac{7}{8} \text{ of } 24 = \boxed{}$$

Now find different numbers of quarters and halves of 32.



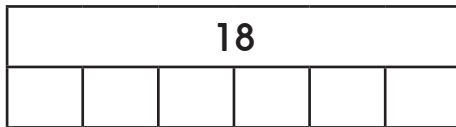
Practice Sheet Hot

Fractions practice



$\frac{1}{3}$ of 18 is

$\frac{2}{3}$ of 18 is



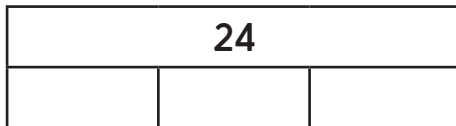
$\frac{1}{6}$ of 18 is

$\frac{2}{6}$ of 18 is

$\frac{3}{6}$ of 18 is

$\frac{4}{6}$ of 18 is

$\frac{5}{6}$ of 18 is



$\frac{1}{3}$ of 24 is

$\frac{2}{3}$ of 24 is

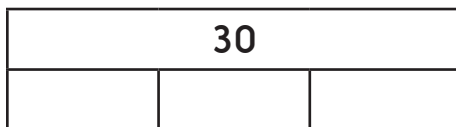
$\frac{1}{6}$ of 24 is

$\frac{2}{6}$ of 24 is

$\frac{3}{6}$ of 24 is

$\frac{4}{6}$ of 24 is

$\frac{5}{6}$ of 24 is



$\frac{1}{3}$ of 30 is

$\frac{2}{3}$ of 30 is

$\frac{1}{6}$ of 30 is

$\frac{2}{6}$ of 30 is

$\frac{3}{6}$ of 30 is

$\frac{4}{6}$ of 30 is

$\frac{5}{6}$ of 30 is



Challenge

Draw your own bar models to find $\frac{1}{3}$ s and $\frac{1}{6}$ s of 36.

Practice Sheet Hot
Fractions practice continued

Practice Sheet Answers

Fractions practice (Mild)

$$\frac{1}{2} \text{ of } 24 = 12$$

$$\frac{1}{4} \text{ of } 24 = 6$$

$$\frac{2}{4} \text{ of } 24 = 12$$

$$\frac{3}{4} \text{ of } 24 = 18$$

$$\frac{1}{8} \text{ of } 24 = 3$$

$$\frac{3}{8} \text{ of } 24 = 9$$

$$\frac{5}{8} \text{ of } 24 = 15$$

$$\frac{7}{8} \text{ of } 24 = 21$$

$$\frac{1}{2} \text{ of } 32 = 16$$

$$\frac{1}{4} \text{ of } 32 = 8$$

$$\frac{2}{4} \text{ of } 32 = 16$$

$$\frac{3}{4} \text{ of } 32 = 24$$

Fractions practice (Hot)

$$\frac{1}{3} \text{ of } 18 \text{ is } 6$$

$$\frac{2}{3} \text{ of } 18 \text{ is } 12$$

$$\frac{1}{6} \text{ of } 18 \text{ is } 3$$

$$\frac{2}{6} \text{ of } 18 \text{ is } 6$$

$$\frac{3}{6} \text{ of } 18 \text{ is } 9$$

$$\frac{4}{6} \text{ of } 18 \text{ is } 12$$

$$\frac{5}{6} \text{ of } 18 \text{ is } 15$$

$$\frac{1}{3} \text{ of } 24 \text{ is } 8$$

$$\frac{2}{3} \text{ of } 24 \text{ is } 16$$

$$\frac{1}{6} \text{ of } 24 \text{ is } 4$$

$$\frac{2}{6} \text{ of } 24 \text{ is } 8$$

$$\frac{3}{6} \text{ of } 24 \text{ is } 12$$

$$\frac{4}{6} \text{ of } 24 \text{ is } 16$$

$$\frac{5}{6} \text{ of } 24 \text{ is } 20$$

$$\frac{1}{3} \text{ of } 30 \text{ is } 10$$

$$\frac{2}{3} \text{ of } 30 \text{ is } 20$$

$$\frac{1}{6} \text{ of } 30 \text{ is } 5$$

$$\frac{2}{6} \text{ of } 30 \text{ is } 10$$

$$\frac{3}{6} \text{ of } 30 \text{ is } 15$$

$$\frac{4}{6} \text{ of } 30 \text{ is } 20$$

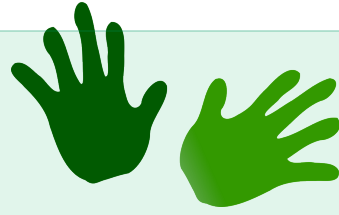
$$\frac{5}{6} \text{ of } 30 \text{ is } 25$$

A Bit Stuck? Fruit strips

Work in pairs

Things you will need:

- Fruit strips
- A pencil



What to do:

- Take it in turns to choose a strip of fruits.
- Fold it in half and then in half again. It is now folded into quarters.
- How many fruits are in each quarter? Write the matching fraction sentence.
- Repeat for as many strips of fruit as you can.

$\frac{1}{4}$ of 4 is 1
$\frac{1}{4}$ of 12 is...

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

Choose one strip. Count how many fruits are in several quarters.

$$\frac{1}{4} \text{ of } \square \text{ is } \square$$

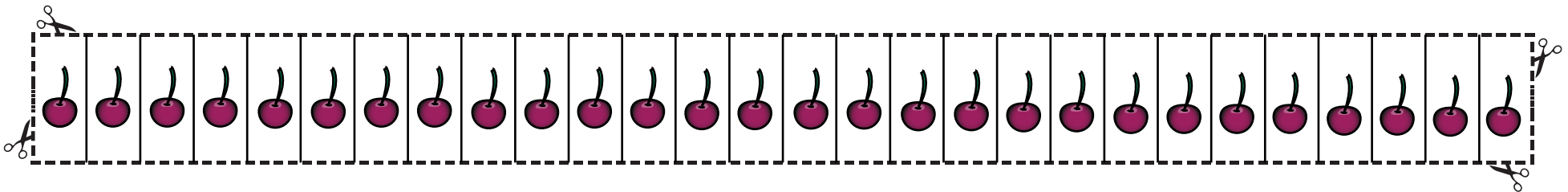
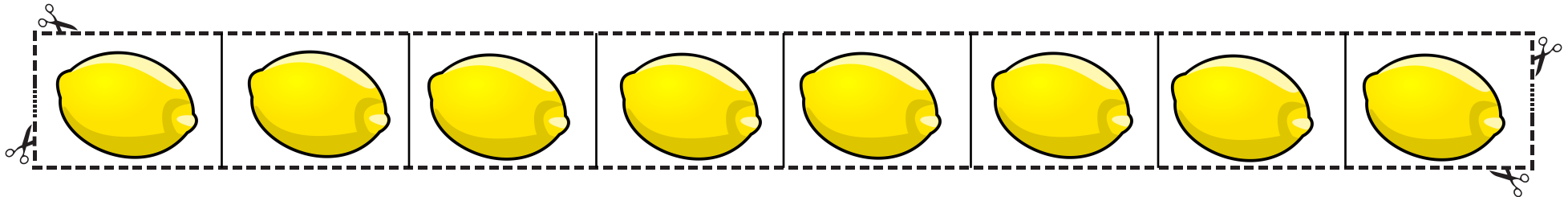
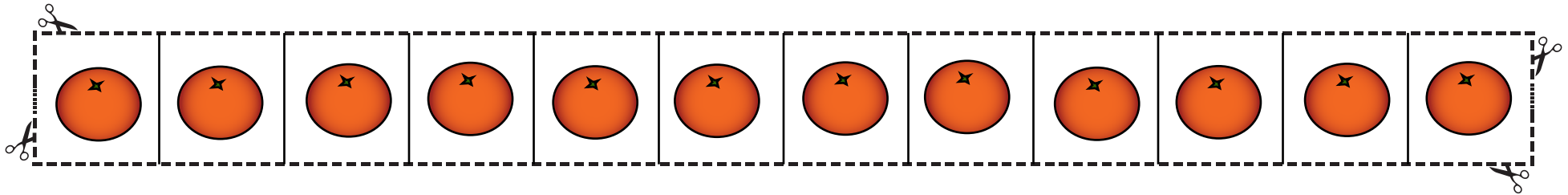
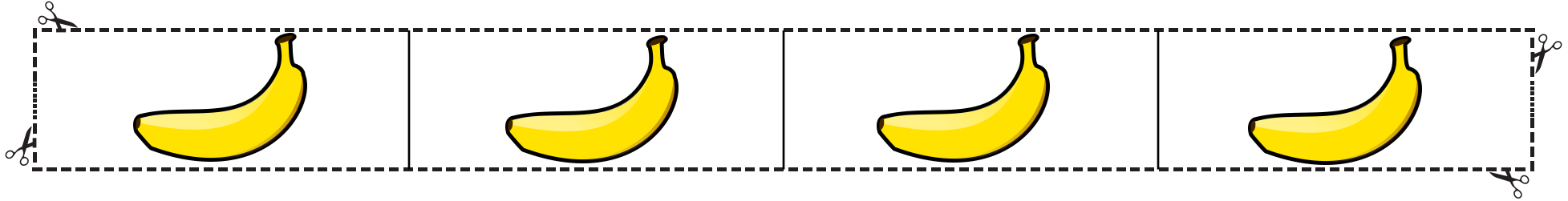
$$\frac{2}{4} \text{ of } \square \text{ is } \square$$

$$\frac{3}{4} \text{ of } \square \text{ is } \square$$

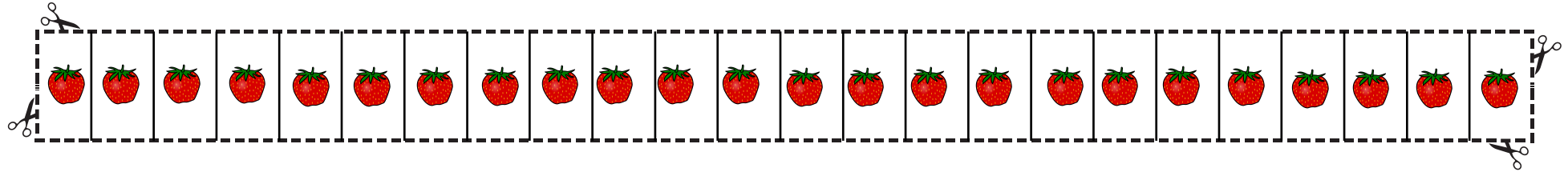
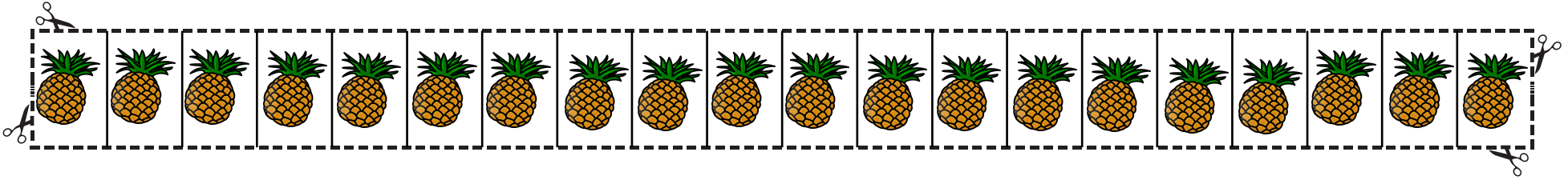
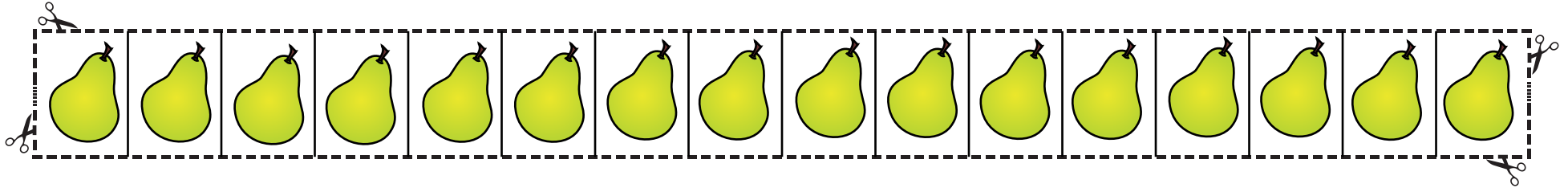
Learning outcomes:

- I can find $\frac{1}{4}$ of amounts by folding strips (whole number answers).
- I am beginning to find several quarters of amounts (whole number answers).

A Bit Stuck?
Fruit strips



A Bit Stuck?
Fruit strips



Check your understanding: Questions

Find $\frac{1}{8}$, then $\frac{3}{8}$ and then $\frac{5}{8}$ of 24.

Write the missing numbers:

___ of 15 is 5

$\frac{2}{3}$ of ___ = 14

$\frac{3}{5}$ of 20 = ____

___ of 10 = 4

Which is bigger, $\frac{2}{5}$ of 35 or $\frac{3}{8}$ of 32?

Challenge

Tom finds that 20 stickers fit in his book. This is $\frac{1}{4}$ of his sticker collection. How many stickers does he have in all?

Fold here to hide answers:

Check your understanding: Answers

Find $\frac{1}{8}$, then $\frac{3}{8}$ and then $\frac{5}{8}$ of 24.

3, 9 and 15 respectively.

Write the missing numbers:

$\frac{1}{3}$ of 15 is 5

$\frac{2}{3}$ of 21 = 14

$\frac{3}{5}$ of 20 = 12

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

If children are struggling with these then use counters or Lego bricks and share them out.

Which is bigger: $\frac{2}{5}$ of 35 or $\frac{3}{8}$ of 32?

$\frac{2}{5}$ of 35 since it is 14. $\frac{3}{8}$ of 32 is 12.

Challenge

Tom finds that 20 stickers fit in his book. This is $\frac{1}{4}$ of his sticker collection. How many stickers does he have in all? 80.