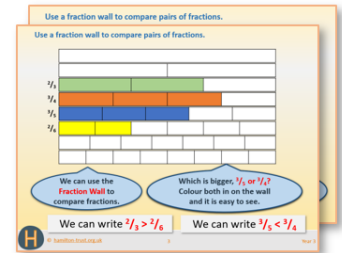


Week 10, Day 2

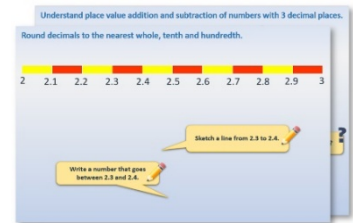
Find fractions of amounts (1)

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

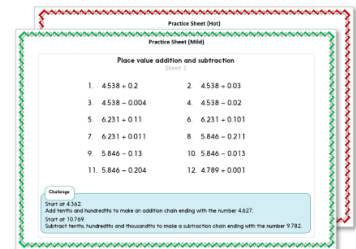
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



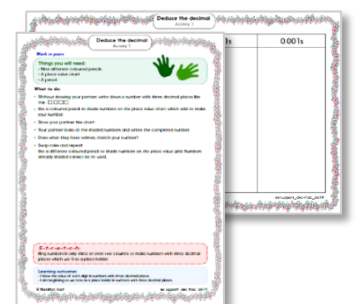
OR start by carefully reading through the **Learning Reminders**.



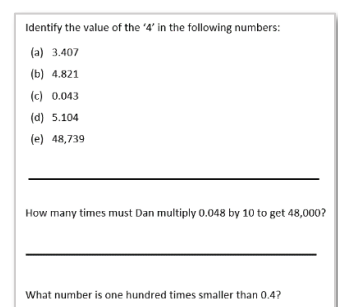
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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 fractions of amounts using sharing and number facts.

I am going to give **half** of these bananas away and keep the rest.

The fraction tells us what to do with this amount.

The 1 tells us that we just want to know what is in one of those groups.

$\frac{1}{2}$

The 2 tells us to share the whole amount between two.



Find fractions of amounts using sharing and number facts.

We have shared the bananas into 2 groups.




$$\frac{1}{2} \text{ of } 12 = 6$$

We can also use number facts to split the bananas...

... we know that double 6 is 12, so half of 12 is 6).

Learning Reminders

Find fractions of amounts using sharing and number facts.




How could we find $\frac{1}{4}$ of the bananas?

We could halve each half.

$$\frac{1}{4} \text{ of } 12 = 3$$

Find fractions of amounts using sharing and number facts.



How could we find $\frac{3}{4}$ of the bananas?

The 3 tells us that we want to know what is in **three** of those groups.

The 4 tells us to share the whole amount between four.

So we want 3 groups of 3 bananas.

$$\frac{3}{4} \text{ of } 12 = 9$$

Learning Reminders

Find fractions of amounts using sharing and number facts.

Now we want to find **one third** of the bananas.

The fraction tells us what to do with this amount.

The 1 tells us that we just want to know what is in one of those groups.

$$\frac{1}{3}$$

The 3 tells us to share the whole amount between three.

$$\frac{1}{3} \text{ of } 12 = 4$$



Practice Sheet Mild

How many? Finding fractions of amounts

$\frac{1}{2}$ of 20 $\frac{1}{3}$ of 12 $\frac{1}{4}$ of 24 $\frac{1}{2}$ of 60 $\frac{1}{4}$ of 8 $\frac{1}{2}$ of 18 $\frac{1}{3}$ of 15 $\frac{1}{2}$ of 30 $\frac{1}{2}$ of 1

$\frac{1}{4}$ of 4 $\frac{1}{3}$ of 9 $\frac{1}{4}$ of 16

$\frac{1}{2}$ of 36 $\frac{1}{3}$ of 18 $\frac{3}{4}$ of 24 $\frac{1}{2}$ of 42 $\frac{1}{4}$ of 48 $\frac{3}{4}$ of 16

Practice Sheet Hot

How many? Finding fractions of amounts

$$\frac{1}{3} \text{ of } 21 \quad \frac{1}{2} \text{ of } 24 \quad \frac{1}{2} \text{ of } 22 \quad \frac{1}{4} \text{ of } 32 \quad \frac{1}{3} \text{ of } 33 \quad \frac{3}{4} \text{ of } 44$$

$$\frac{1}{2} \text{ of } 34 \quad \frac{1}{3} \text{ of } 15 \quad \frac{3}{4} \text{ of } 4 \quad \frac{1}{2} \text{ of } 38 \quad \frac{1}{4} \text{ of } 10 \quad \frac{3}{4} \text{ of } 28 \quad \frac{1}{3} \text{ of } 30 \quad \frac{1}{2} \text{ of } 26 \quad \frac{3}{4} \text{ of } 36$$

$$\frac{1}{4} \text{ of } 52 \quad \frac{1}{3} \text{ of } 39 \quad \frac{4}{4} \text{ of } 40$$

Practice Sheet Answers

Practice Sheet (Mild)

$\frac{1}{2}$ of 20 is 10

$\frac{1}{3}$ of 12 is 4

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

$\frac{1}{2}$ of 60 is 30

$\frac{1}{4}$ of 8 is 2

$\frac{1}{2}$ of 18 is 9

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

$\frac{1}{2}$ of 30 is 15

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

$\frac{1}{4}$ of 32 is 8

$\frac{1}{3}$ of 9 is 3

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

$\frac{1}{2}$ of 36 is 18

$\frac{1}{3}$ of 4 is 1

$\frac{3}{4}$ of 24 is 18

$\frac{1}{2}$ of 42 is 21

$\frac{1}{4}$ of 48 is 12

$\frac{3}{4}$ of 16 is 12

Practice Sheet (Hot)

$\frac{1}{3}$ of 21 is 7

$\frac{1}{2}$ of 24 is 12

$\frac{1}{2}$ of 22 is 11

$\frac{1}{4}$ of 32 is 8

$\frac{1}{3}$ of 33 is 11

$\frac{3}{4}$ of 44 is 33

$\frac{1}{2}$ of 34 is 17

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

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

$\frac{1}{2}$ of 38 is 19

$\frac{1}{4}$ of 10 is $2\frac{1}{2}$

$\frac{3}{4}$ of 28 is 21

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

$\frac{1}{2}$ of 26 is 13

$\frac{3}{4}$ of 36 is 27

$\frac{1}{4}$ of 52 is 13

$\frac{1}{3}$ of 39 is 13

$\frac{4}{4}$ of 40 is 40

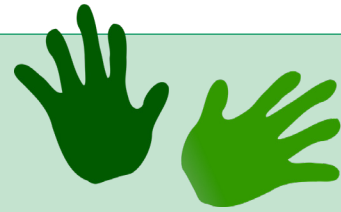
A Bit Stuck?

Decorate the cake

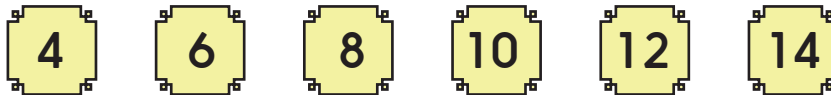
Work in pairs

Things you will need:

- Cake outlines
- Counters
- Recording sheet
- Coloured pencils



What to do:



- Choose a number.
- Split this number of Smarties® (counters) between two $\frac{1}{2}$ s of the big cake divided in $\frac{1}{2}$.
- Draw the Smarties® on a blank cake divided in $\frac{1}{2}$ on the recording sheet.
- Repeat twice more.



- Choose a number.
- Split this number of Smarties® (counters) between the four $\frac{1}{4}$ s of the big cake divided into $\frac{1}{4}$ s.
- Draw the Smarties® on a blank cake divided into $\frac{1}{4}$ s on the recording sheet.
- Repeat twice more.

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

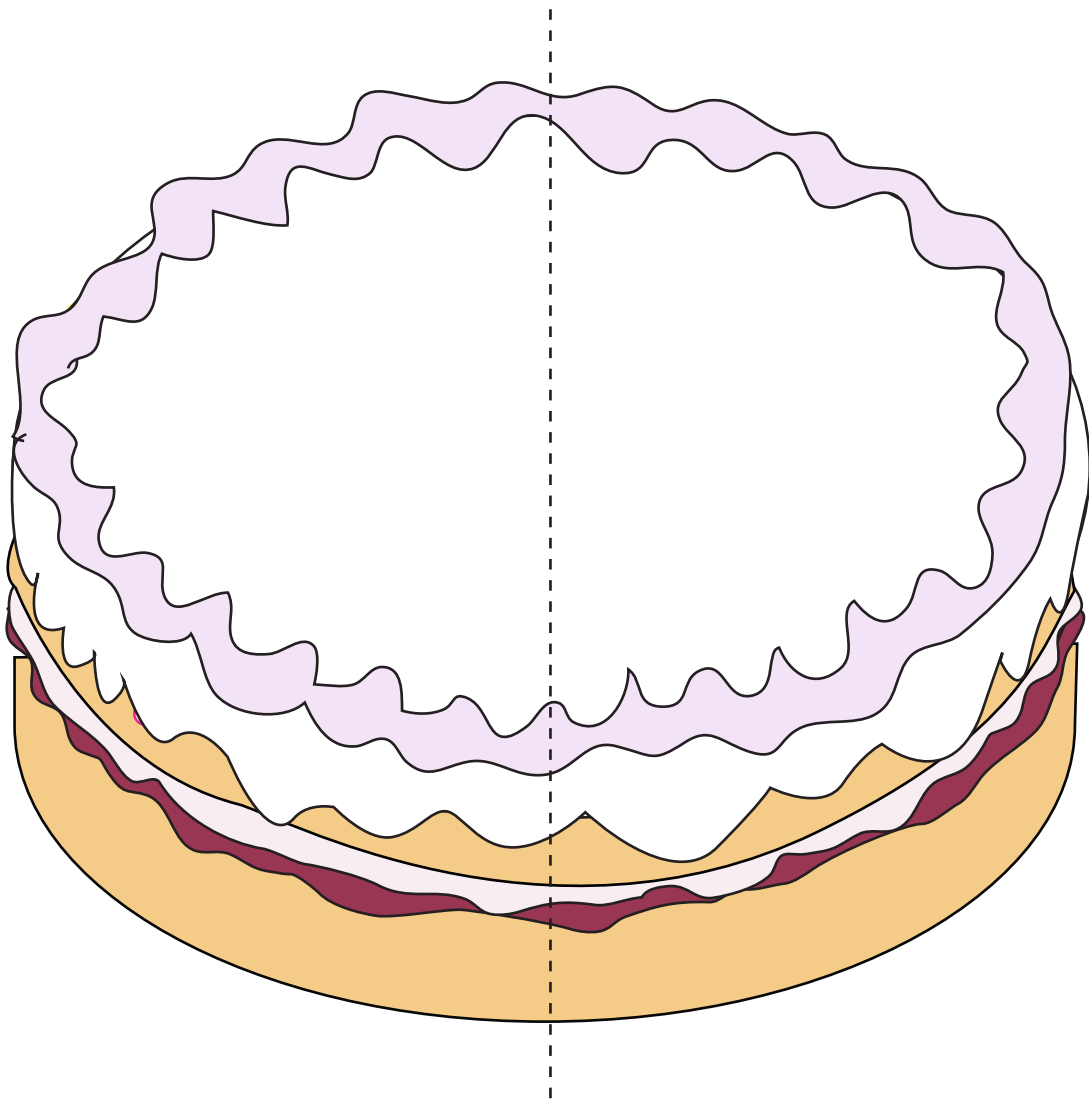
$\frac{1}{2}$ of 8 is $\frac{1}{4}$ of 8 is

$\frac{1}{2}$ of 16 is $\frac{1}{4}$ of 16 is

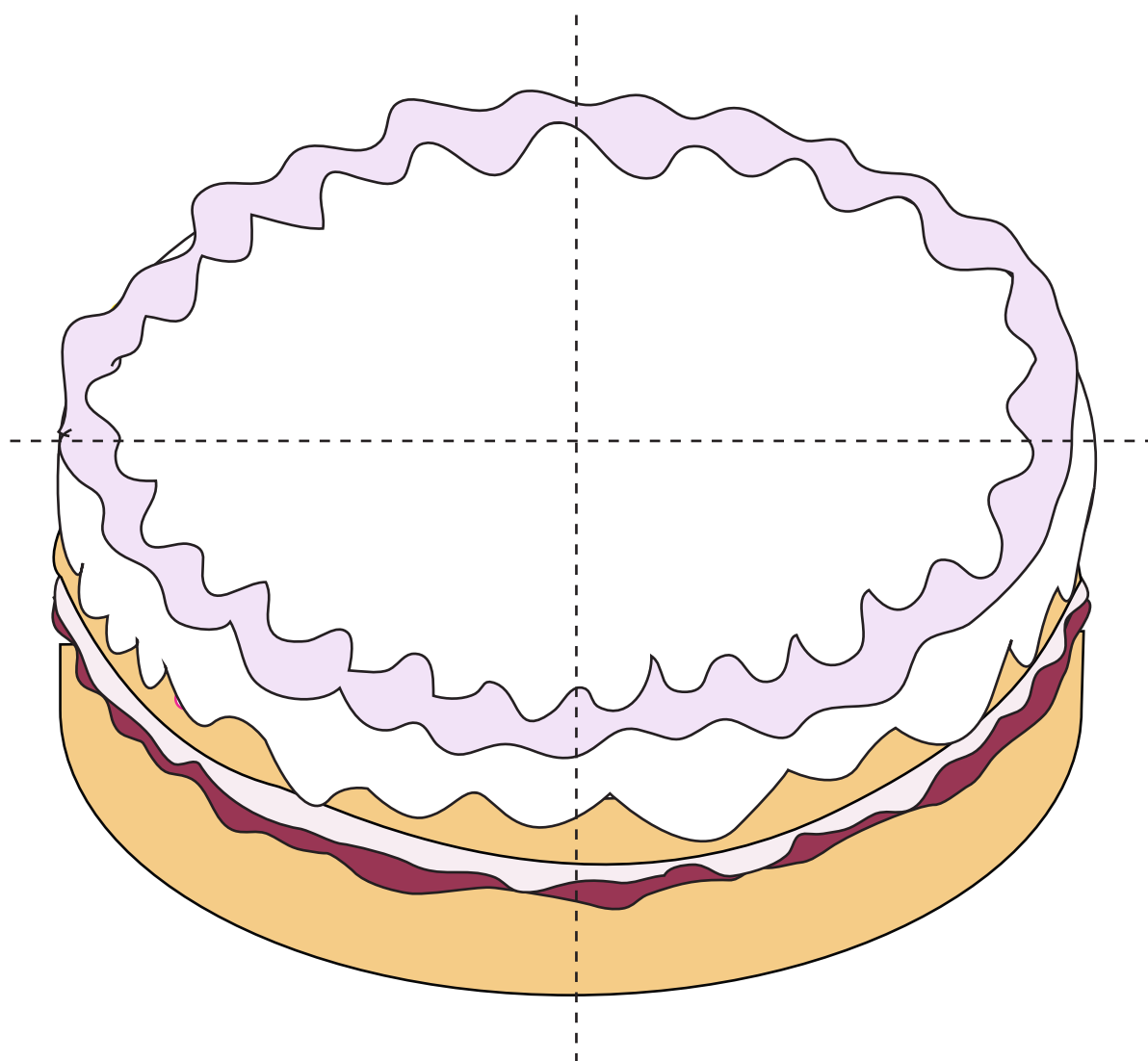
Learning outcomes:

- I understand that halves and quarters are equal parts of a whole.
- I can find $\frac{1}{2}$ and $\frac{1}{4}$ of numbers (whole number answers).
- I am beginning to understand that I can halve twice to find $\frac{1}{4}$.

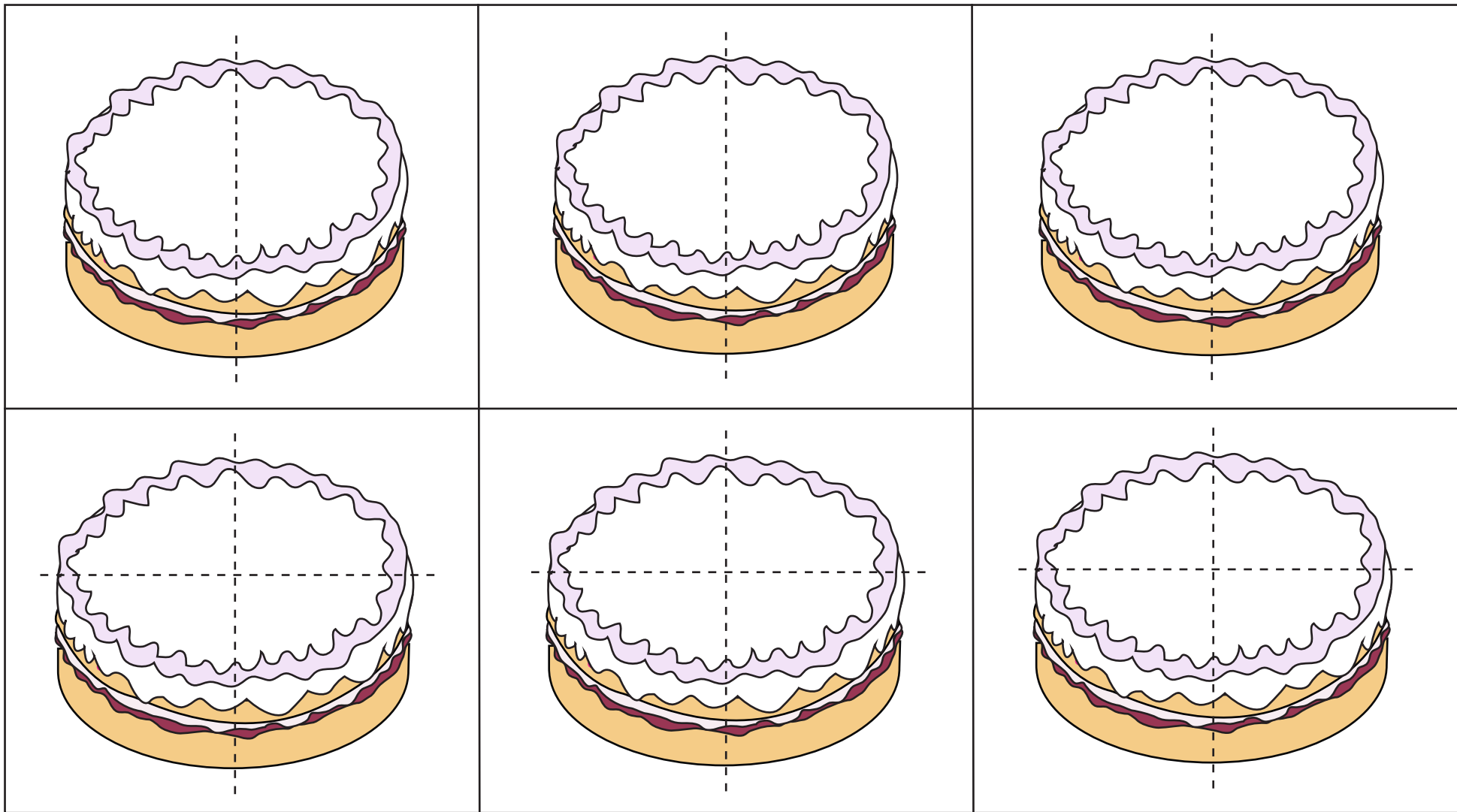
A Bit Stuck?
Decorate the cake



A Bit Stuck?
Decorate the cake



A Bit Stuck?
Decorate the cake



Check your understanding: Questions

Find $\frac{1}{4}$ of each quantity:

- (a) 24 stickers
- (b) 16 pennies
- (c) 28 crisps

Use your answers to find $\frac{3}{4}$ of each quantity.

True or false?

- $\frac{1}{3}$ of 12p is the same as $\frac{1}{2}$ of 8p
- $\frac{1}{3}$ of 24p is the same as $\frac{1}{2}$ of 16p
- $\frac{1}{4}$ of 28p is the same as $\frac{3}{4}$ of 16p

Fold here to hide answers:

Check your understanding: Answers

Find $\frac{1}{4}$ of each quantity:

- (a) 24 stickers **6**
- (b) 16 pennies **4**
- (c) 28 crisps **7**

Use your answers to find $\frac{3}{4}$ of each quantity.

18, 12, 21 respectively. Either by finding 3 times the answer for $\frac{1}{4}$, or by subtracting $\frac{1}{4}$ from the original quantity.

True or false?

- $\frac{1}{3}$ of 12p is the same as $\frac{1}{2}$ of 8p **True, both equal 4p.**
- $\frac{1}{3}$ of 24p is the same as $\frac{1}{2}$ of 16p **True, both equal 8p.**
- $\frac{1}{4}$ of 28p is the same as $\frac{3}{4}$ of 16p **False, they equal 7p and 12p respectively.**