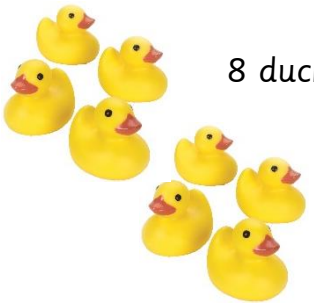
THINKING ABOUT FRACTIONS

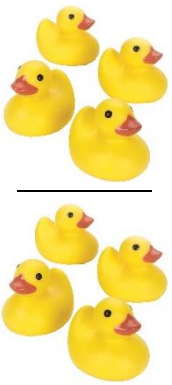
Here is 1 lemon cut in half … divided into 2 halves.

$\frac{1}{2}$ … one half.

www.foodphotosite.com

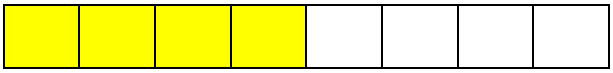


8 ducks divided by 2:



$\frac{8}{2}$ = 4 because 4 x 2 = 8.

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



Now do these:

$\frac{6}{2}$ = ☐ because ☐ x 2 = 6.

$\frac{1}{2}$ of 6 = ☐

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$\frac{10}{2}$ = ☐ because ☐ x 2 = 10.

$\frac{1}{2}$ of 10 = ☐

……

$\frac{16}{2}$ = ☐ because ☐ x 2 = 16.

$\frac{1}{2}$ of 16 = ☐

……

$\frac{20}{2}$ = ☐ because ☐ x 2 = 20.

$\frac{1}{2}$ of 20 = ☐

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$\frac{24}{2}$ = ☐ because ☐ x 2 = 24.

$\frac{1}{2}$ of 24 = ☐

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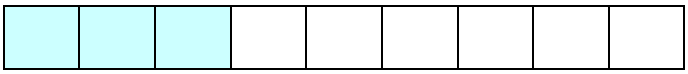

$\frac{9}{3}$ = ☐ because ☐ x 3 = 9.

$\frac{1}{3}$ of 9 = ☐

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$\frac{15}{3}$ = ☐ because ☐ x 3 = 15.

$\frac{1}{3}$ of 15 = ☐

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$\frac{21}{3}$ = ☐ because ☐ x 3 = 21.

$\frac{1}{3}$ of 21 = ☐

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$\frac{30}{3}$ = ☐ because ☐ x 3 = 30.

$\frac{1}{3}$ of 30 = ☐

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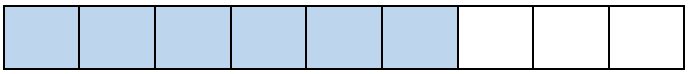

Now try these ...

$\frac{2}{3}$ of 9 = ☐	$\frac{2}{3}$ of 12 = ☐	$\frac{2}{3}$ of 15 = ☐	$\frac{2}{3}$ of 30 = ☐

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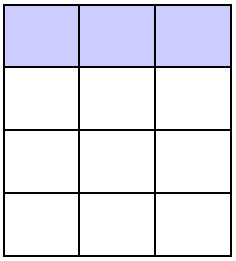

$\frac{12}{4}$ = ☐ because ☐ x 4 = 12.

$\frac{1}{4}$ of 12 = ☐

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$\frac{16}{4}$ = ☐ because ☐ x 4 = 16.

$\frac{1}{4}$ of 16 = ☐

.....

$\frac{24}{4}$ = ☐ because ☐ x 4 = 24.

$\frac{1}{4}$ of 24 = ☐

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$\frac{40}{4} = \square$ because $\square$ x 4 = 40.

$\frac{1}{4}$ of 40 = $\square$

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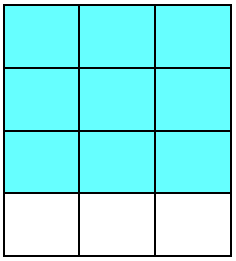


Now try these ...

$\frac{3}{4}$ of 12 = $\square$	$\frac{3}{4}$ of 20 = $\square$	$\frac{3}{4}$ of 24 = $\square$	$\frac{3}{4}$ of 32 = $\square$

.....

$\frac{1}{5}$ of 20 = $\square$	$\frac{2}{5}$ of 20 = $\square$	$\frac{3}{5}$ of 20 = $\square$	$\frac{4}{5}$ of 20 = $\square$

.....

$\frac{1}{2}$ of 10 = $\square$	$\frac{2}{3}$ of 15 = $\square$	$\frac{3}{4}$ of 16 = $\square$	$\frac{2}{5}$ of 15 = $\square$
$\frac{1}{7}$ of 14 = $\square$	$\frac{4}{5}$ of 25 = $\square$	$\frac{3}{5}$ of 30 = $\square$	$\frac{1}{8}$ of 24 = $\square$

Use your work on fractions to help you to find the answers to the following calculations:

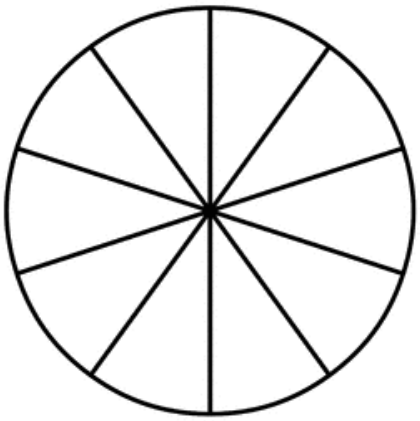
1	Mum keeps Bert's dog biscuits in the cupboard. One day she leaves the door open by mistake. Bert has a feast! There are 36 biscuits in the bag and he eats one third of them. How many biscuits does he eat?	
2	Fred has £5.00. He spends two fifths of it on some football stickers. How much money does he have left?	
3	Jo makes some flapjack. She cuts it into 30 pieces. She puts one third of the pieces in a tin to take to the home educators' picnic later on. Then three of her friends come round and they eat two pieces each (Jo included). How many pieces of flapjack are left on the plate?	
4	Amy has 36 chocolate coins. She gives one third of them to Ben and a quarter of them to Matt. How many are left?	
5	Tom has some money in his pocket. He spends three quarters of it on some chips on his way home. He has 30p left. How much were the chips?	

See if you can do these …

$\frac{1}{2}$ of 4 = ☐	$\frac{1}{5}$ of 20 = ☐	$\frac{1}{10}$ of 10 = ☐	$\frac{1}{4}$ of 36 = ☐
$\frac{2}{3}$ of 21 = ☐	$\frac{2}{5}$ of 25 = ☐	$\frac{3}{10}$ of 40 = ☐	$\frac{3}{4}$ of 36 = ☐

$\frac{1}{2}$ of ☐ = 8	$\frac{1}{3}$ of ☐ = 10	$\frac{1}{5}$ of ☐ = 4	$\frac{1}{10}$ of ☐ = 8
$\frac{1}{4}$ of ☐ = 6	$\frac{1}{6}$ of ☐ = 4	$\frac{1}{8}$ of ☐ = 6	$\frac{2}{3}$ of ☐ = 10

To finish, colour one fifth of the circle in your favourite colour.



http://etc.usf.edu/clipart