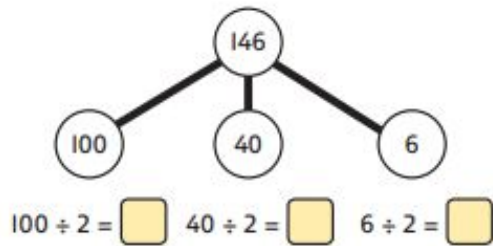


Wednesday 1st April 2020

WALT Use place value, known and derived facts to divide mentally

Success Criteria I can use partitioning to divide

Find the answer to $146 \div 2$.



$$\square + \square + \square = \square$$

$$146 \div 2 = \square$$

Why has 146 been partitioned as 100, 40 and 6?

Can you think of a different way to do it? Would the answer to the division change?

Have a go then scroll down for the answer.

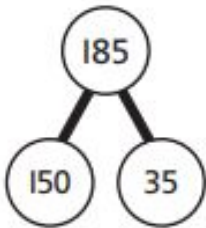
$$146 \div 2$$

$$100 \div 2 = 50 \quad 40 \div 2 = 20 \quad 6 \div 2 = 3$$

$$50 + 20 + 3 = 73$$

$$146 \div 2 = 73$$

Use the part-whole model to find the answer to $185 \div 5$.



How does the part-whole model help you to divide by 5?

Remember to use what you know to work out what you don't know, e.g. $15 \div 5 = 3$

How else might you partition 185 to help you to share it into 5 equal groups?

Have a go then scroll down for the answer.

$$185 \div 5$$

$$150 \div 5 = 30 \text{ because } 15 \div 5 = 3$$

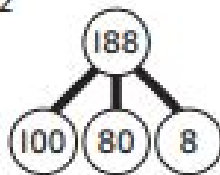
$$35 \div 5 = 7$$

$$30 + 7 = 37$$

$$185 \div 5 = 37$$

1 Work out these calculations using the part-whole models.

a) $188 \div 2$

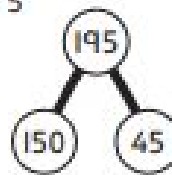


$$100 \div 2 = \square \quad 80 \div 2 = \square$$
$$8 \div 2 = \square$$

$$\square + \square + \square = \square$$

So, $188 \div 2 = \square$

c) $195 \div 5$

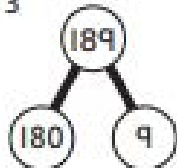


$$150 \div 5 = \square \quad 45 \div 5 = \square$$

$$\square + \square = \square$$

So, $195 \div 5 = \square$

b) $189 \div 3$

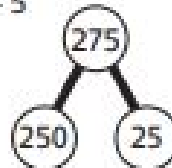


$$180 \div 3 = \square \quad 9 \div 3 = \square$$

$$\square + \square = \square$$

So, $189 \div 3 = \square$

d) $275 \div 5$



$$250 \div 5 = \square \quad 25 \div 5 = \square$$

$$\square + \square = \square$$

So, $275 \div 5 = \square$

Answers

1. a) $100 \div 2 = 50$ $80 \div 2 = 40$

$8 \div 2 = 4$

$50 + 40 + 4 = 94$

So, $188 \div 2 = 94$

b) $180 \div 3 = 60$ $9 \div 3 = 3$

$60 + 3 = 63$

So, $189 \div 3 = 63$

c) $150 \div 5 = 30$ $45 \div 5 = 9$

$30 + 9 = 39$

So, $195 \div 5 = 39$

d) $250 \div 5 = 50$ $25 \div 5 = 5$

$50 + 5 = 55$

So, $275 \div 5 = 55$