

Thursday 2nd April 2020

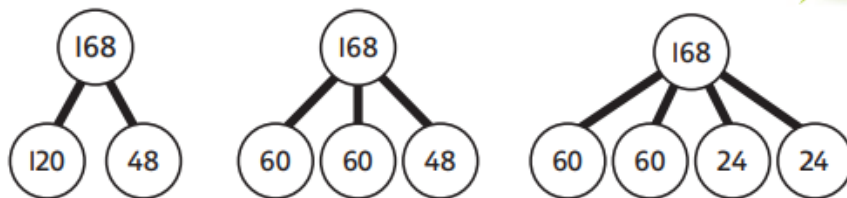
WALT Use place value, known and derived facts to divide mentally

Success Criteria I can use partitioning to divide 3-digit numbers

Have you been on Rockstars lately? Why not log in and play before you start the activity below?

ACTIVITY 1

Here are three different ways of partitioning $168 \div 6$.



- Use each partition to work out $168 \div 6$.
- Which method do you prefer? Why?
- If you can, ask an adult if they agree with you.

Have a go then scroll down for the answer.

Answers

Method 1

$$168 = 120 + 48$$

$$120 \div 6 = 20 \text{ and } 48 \div 6 = 8$$

$$20 + 8 = 28 \text{ and so } 168 \div 6 = 28$$

Method 2

$$168 = 60 + 60 + 48$$

$$60 \div 6 = 10 \text{ and } 60 \div 6 = 10 \text{ and } 48 \div 6 = 8$$

$$10 + 10 + 8 = 28 \text{ and so } 168 \div 6 = 28$$

Method 3

$$168 = 60 + 60 + 24 + 24$$

$$60 \div 6 = 10 \text{ and } 60 \div 6 = 10 \text{ and } 24 \div 6 = 4 \text{ and } 24 \div 6 = 4$$

$$10 + 10 + 4 + 4 = 28 \text{ and so } 168 \div 6 = 28$$

ACTIVITY 2

- A. Find three different ways of partitioning 186.
Use one of your partitions to work out $186 \div 3$.
- B. Find three different ways of partitioning 246.
Use one of your partitions to work out $246 \div 6$.
- C. Find three different ways of partitioning 288.
Use one of your partitions to work out $288 \div 4$.

Have a go then scroll down for the answers.

Answers

- A. 62
- B. 41
- C. 72