

Y5 Scaling Rates

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

A tree is 4 m tall. A building is 6 times How tall is the building?

Step 1 · '6 times' means multiply

$$4 \times 6$$

Answer: 24 m

Check: $24 \div 6 = 4$ ✓

2. Now try one with the steps

A recipe for 8 people uses 240 g of flour. How much flour is needed for 2 people?

Step 1 · 2 people is a quarter of 8 people

Step 2 · $\frac{1}{4}$ of 240 g

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. A pencil is 15 cm long. A ruler is 2 times How long is the ruler?

2. A puppy weighs 3 kg. Its mother weighs 8 times How much does the mother weigh?

3. A giraffe is 6 m tall. A child is a quarter of that height. How tall is the child?

4. A recipe for 4 people uses 300 g of rice. How much rice is needed for 12 people?

5. A recipe for 6 people needs 450 ml of stock. How much is needed for 3 people?

6. Oranges cost 35p each. How much do 9 oranges cost?

7. A car travels 50 miles every hour. How far does it travel in 7 hours?

8. A tap fills a 120-litre tank in 10 minutes. How many litres per minute is that?

9. Aisha reads 24 pages a day. How many days does she need to read a 360-page book?

10. 5 pens cost £4.50. How much do 8 pens cost?

11. A model car is $\frac{1}{20}$ of the size of the real car. The real car is 400 cm long. How long is the model?

12. A photocopier makes 45 copies in 3 minutes. How many copies in 20 minutes?

13. Tom has 3 times stickers Together they have 96. How many does Tom have?

14. Window cleaner A charges £12 per window. Cleaner B charges £50 for any 5 windows. Which is cheaper for 10 windows, and by how much?

4. Before you hand it in

Reading '6 times as 4 m' as $4 + 6 = 10$ m.

'Times as' means multiply: $4 \times 6 = 24$ m. A bar model with 6 equal bars helps.

Scaling a recipe for 8 down to 2 by taking away 6 from each amount.

2 people is a quarter of 8, so divide every amount by 4.

For '5 pens cost £4.50, find 8 pens', multiplying £4.50 by 8.

Find the price for 1 first (90p), then multiply: $90\text{p} \times 8 = £7.20$.