

## Arithmetic

1.  $70 \times 9$

2.  $5,050 - 126$

3.  $40 \times 0$

4.  $3^3$

## Practice: Metric and Imperial

5. Recap: What does the symbol  $\approx$  mean?6. Use 1 inch  $\approx$  2.5cm to convert between these measurements.

- a. 2 inches      b. 12 inches      c. 5 inches

7. Use 1 inch  $\approx$  2.5cm to convert between these measurements.

- a. 7.5cm      b. 25cm      c. 12.5cm

8. Use 1 kg  $\approx$  2lb to convert between these measurements.

- a. 3kg      b. 0.5kg      c. 17.6kg

9. Use 1 kg  $\approx$  2lb to convert between these measurements.

- a. 18lb      b. 15lb      c. 12.5

10. Why is it useful to know the approximate equivalences between metric and imperial measures?

11. Use 1 pint  $\approx$  568ml to convert between these measurements.

- a. 2 pints      b.
- $\frac{1}{2}$
- pint      c. 5 pints

12. Use 1 pint  $\approx$  568ml to convert between these measurements.

- a. 5,680ml      b. 2,272ml      c. 1,420ml

13. Alfie says 1.5kg  $\approx$  2.5lb. Is this correct? Explain.

## Challenge

14. 1 pint  $\approx$  568ml

What other facts can you derive from this?

For example, 3 pints  $\approx$  1,704mlYou might want  
to talk to an adult

Spot the mistake

## Answers

| Q no. | Question   | Answer  |
|-------|--|---|
| 1     | $70 \times 9$  | 630   |
| 2     | $5,050 - 126$  | 4,924   |
| 3     | $40 \times 0$  | 0   |
| 4     | $3^3$  | 27  |
| 5     | What does the symbol $\approx$ mean?   | The $\approx$ symbol means approximate equivalence. We use approximate equivalences when converting between metric and imperial measure to make conversion easier.  |
| 6     | Use 1 inch $\approx$ 2.5cm to convert between these measurements.  | a. 5cm, b. 30cm, c. 12.5cm  |
| 7     | Use 1 inch $\approx$ 2.5cm to convert between these measurements.  | a. 3 inches, b. 10 inches, c. 5 inches  |
| 8     | Use 1 kg $\approx$ 2lb to convert between these measurements.  | a. 6lb, b. 1lb, c. 35.2lb   |
| 9     | Use 1 kg $\approx$ 2lb to convert between these measurements.  | a. 9kg, b. 7.5, c. 6.25   |
| 10    | Why is it useful to know the approximate equivalences between metric and imperial measures?                    | Most countries will predominantly use metric or imperial measures. There will, however, be occasions when a country will use both. For example, it is common in the United Kingdom to measure height in centimetres/ metres but also in feet/ inches. By knowing approximate equivalences, it is easier to convert to a unit of measure that is familiar to the person. |
| 11    | Use 1 pint $\approx$ 568ml to convert between these measurements.  | a. 1,136ml, b. 284ml, c. 2,840ml  |
| 12    | Use 1 pint $\approx$ 568ml to convert between these measurements.  | a. 10 pints, b. 4 pints, c. 2.5 pints   |
| 13    | Alfie says $1.5\text{kg} \approx 2.5\text{lb}$ . Is this correct? Explain.                                     | Alfie is incorrect. He has added 0.5 to both sides. This shows that he does not understand how to find equivalents. The correct answer is 3lb.  |
| 14    | 1 pint $\approx$ 568ml<br>What other facts can you derive from this?<br>For example, 3 pints $\approx$ 1,704ml | Answers will vary. Encourage the pupils to use numbers different to the ones in question 11 and 12. They could, however, combine information given, such as 2 pints $\approx$ 1,136ml and $\frac{1}{2}$ pint $\approx$ 284ml so 2 $\frac{1}{2}$ pints $\approx$ 1,420ml   |