

CONVERSION GRAPHS - MEASURES

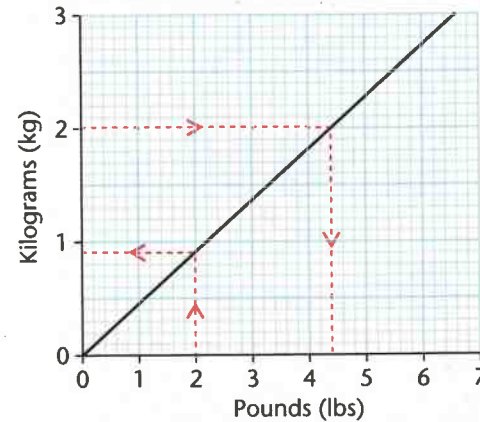
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TARGET To interpret conversion graphs involving measures.

This graph converts pounds into kilograms and vice versa.

2 kilograms converts to 4.4 lb.

2 lb converts to 0.9 kg to the nearest 100 g.



A

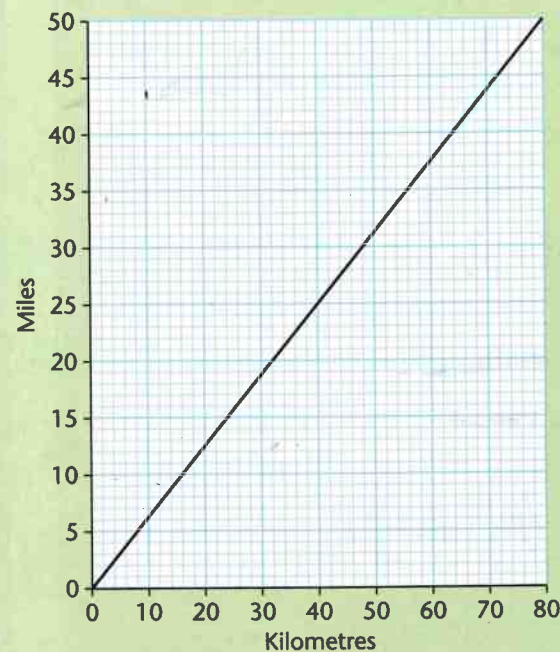
This graph converts kilometres to miles.

- 1 Use the graph to convert to the nearest mile:

- | | |
|----------|----------|
| a) 16 km | e) 72 km |
| b) 40 km | f) 48 km |
| c) 32 km | g) 14 km |
| d) 56 km | h) 26 km |

- 2 Use the graph to convert to the nearest kilometre:

- | | |
|-------------|--------------|
| a) 50 miles | e) 5 miles |
| b) 15 miles | f) 34 miles |
| c) 40 miles | g) 19 miles |
| d) 21 miles | h) 46 miles. |



- 3 A marathon course is 42 km long. How long is the race to the nearest mile?

- 4 Two French villages are 9 miles apart. What is this distance as shown in km on a road sign?

B

This graph converts ounces to grams.

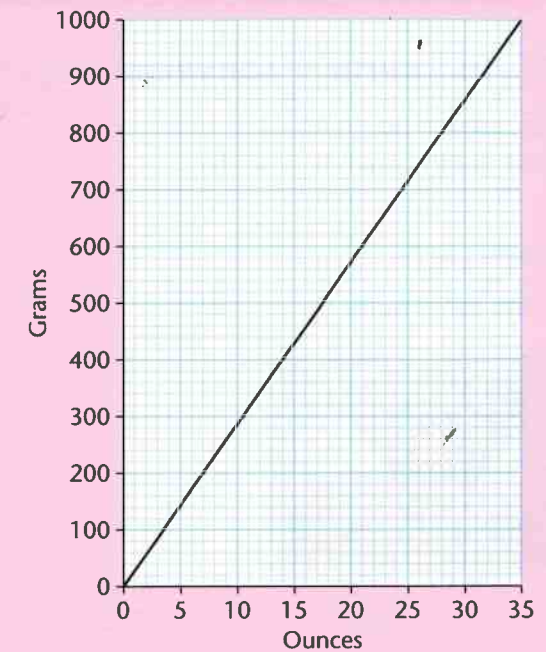
- 1 Convert to the nearest 10 grams:

- | | |
|----------|-----------|
| a) 5 oz | e) 23 oz |
| b) 28 oz | f) 19 oz |
| c) 9 oz | g) 14 oz |
| d) 35 oz | h) 33 oz. |

- 2 Convert to the nearest ounce:

- | | |
|----------|----------|
| a) 600 g | e) 200 g |
| b) 320 g | f) 540 g |
| c) 740 g | g) 980 g |
| d) 460 g | h) 60 g. |

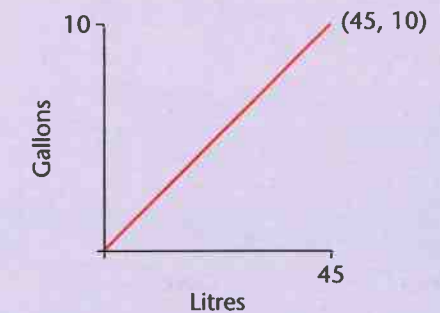
- 3 A rubber weighs 30 oz. What does it weigh in grams?



C

- 1 Draw a graph to convert litres to gallons.

- Label the horizontal axis (litres) in 5s to 45.
- Label the vertical axis (gallons) in 1s to 10.
- Plot the points (0, 0) and (45, 10).
- Join the points with a straight line.



- 2 Use your graph to convert to the nearest tenth of a gallon:

- | | |
|--------------|---------------|
| a) 36 litres | d) 43 litres |
| b) 23 litres | e) 9 litres |
| c) 1 litre | f) 13 litres. |

- 3 Use your graph to convert to the nearest litre:

- | | |
|----------------|-----------------|
| a) 6 gallons | d) 4 gallons |
| b) 8.2 gallons | e) 5.6 gallons |
| c) 2.4 gallons | f) 1.8 gallons. |

- 4 Draw a graph to convert feet and inches to centimetres. (1 foot = 12 inches)

- Label the horizontal axis (inches) in 5s to 40.
- Label the vertical axis (centimetres) in 10s to 100.
- Join points (0, 0) and (40, 100) with a straight line.

- 5 Use your graph to convert to the nearest centimetre:

- | | |
|------------------|-------------------|
| a) 10 inches | d) 4 inches |
| b) 2 feet | e) 3 ft 2 inches |
| c) 1 ft 4 inches | f) 2 ft 8 inches. |

- 6 Use your graph to convert to feet and inches:

- | | |
|----------|-----------|
| a) 50 cm | d) 8 cm |
| b) 20 cm | e) 72 cm |
| c) 90 cm | f) 30 cm. |