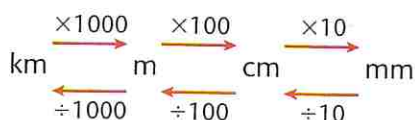


**TARGET** To convert between standard units of length, mass and capacity and between miles and kilometres.

## UNITS OF LENGTH



$$1 \text{ mile} = 1.6 \text{ km}$$

$$8 \text{ km} = 5 \text{ miles}$$

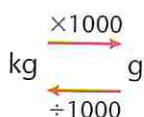
### Examples

$$3 \text{ km } 517 \text{ m} = 3517 \text{ m} = 3.517 \text{ km}$$

$$2 \text{ m } 96 \text{ cm} = 296 \text{ cm} = 2.96 \text{ m}$$

$$1 \text{ cm } 4 \text{ mm} = 14 \text{ mm} = 1.4 \text{ cm}$$

## UNITS OF MASS



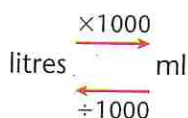
### Examples

$$2 \text{ kg } 700 \text{ g} = 2700 \text{ g} = 2.7 \text{ kg}$$

$$6 \text{ kg } 390 \text{ g} = 6390 \text{ g} = 6.39 \text{ kg}$$

$$0 \text{ kg } 105 \text{ g} = 105 \text{ g} = 0.105 \text{ kg}$$

## UNITS OF CAPACITY



### Examples

$$1 \text{ litre } 250 \text{ ml} = 1250 \text{ ml} = 1.25 \text{ litres}$$

$$4 \text{ litres } 600 \text{ ml} = 4600 \text{ ml} = 4.6 \text{ litres}$$

$$5 \text{ litres } 825 \text{ ml} = 5825 \text{ ml} = 5.825 \text{ litres}$$

## A

Copy and complete.

$$1 \quad 2 \text{ cm } 4 \text{ mm} = \boxed{\phantom{00}} \text{ mm} = \boxed{\phantom{00}} \text{ cm}$$

$$2 \quad 0 \text{ m } 76 \text{ cm} = \boxed{\phantom{00}} \text{ cm} = \boxed{\phantom{00}} \text{ m}$$

$$3 \quad 15 \text{ km } 200 \text{ m} = \boxed{\phantom{00}} \text{ m} = \boxed{\phantom{00}} \text{ km}$$

$$4 \quad 0 \text{ kg } 800 \text{ g} = \boxed{\phantom{00}} \text{ g} = \boxed{\phantom{00}} \text{ kg}$$

$$5 \quad 1 \text{ litre } 100 \text{ ml} = \boxed{\phantom{00}} \text{ ml} = \boxed{\phantom{00}} \text{ litres}$$

$$6 \quad 0 \text{ cm } 6 \text{ mm} = \boxed{\phantom{00}} \text{ mm} = \boxed{\phantom{00}} \text{ cm}$$

$$7 \quad 3 \text{ m } 15 \text{ cm} = \boxed{\phantom{00}} \text{ cm} = \boxed{\phantom{00}} \text{ m}$$

$$8 \quad 0 \text{ km } 300 \text{ m} = \boxed{\phantom{00}} \text{ m} = \boxed{\phantom{00}} \text{ km}$$

$$9 \quad 8 \text{ kg } 290 \text{ g} = \boxed{\phantom{00}} \text{ g} = \boxed{\phantom{00}} \text{ kg}$$

$$10 \quad 0 \text{ litres } 900 \text{ ml} = \boxed{\phantom{00}} \text{ ml} = \boxed{\phantom{00}} \text{ litres}$$

$$11 \quad 110 \text{ mm} = \boxed{\phantom{00}} \text{ cm } \boxed{\phantom{00}} \text{ mm} = \boxed{\phantom{00}} \text{ cm}$$

$$12 \quad 238 \text{ cm} = \boxed{\phantom{00}} \text{ m } \boxed{\phantom{00}} \text{ cm} = \boxed{\phantom{00}} \text{ m}$$

$$13 \quad 4700 \text{ m} = \boxed{\phantom{00}} \text{ km } \boxed{\phantom{00}} \text{ m} = \boxed{\phantom{00}} \text{ km}$$

$$14 \quad 12 \text{ 600 g} = \boxed{\phantom{00}} \text{ kg } \boxed{\phantom{00}} \text{ g} = \boxed{\phantom{00}} \text{ kg}$$

$$15 \quad 520 \text{ ml} = \boxed{\phantom{00}} \text{ litres } \boxed{\phantom{00}} \text{ ml} = \boxed{\phantom{00}} \text{ litres}$$

$$16 \quad 359 \text{ mm} = \boxed{\phantom{00}} \text{ cm } \boxed{\phantom{00}} \text{ mm} = \boxed{\phantom{00}} \text{ cm}$$

$$17 \quad 720 \text{ cm} = \boxed{\phantom{00}} \text{ m } \boxed{\phantom{00}} \text{ cm} = \boxed{\phantom{00}} \text{ m}$$

$$18 \quad 2650 \text{ m} = \boxed{\phantom{00}} \text{ km } \boxed{\phantom{00}} \text{ m} = \boxed{\phantom{00}} \text{ km}$$

$$19 \quad 530 \text{ g} = \boxed{\phantom{00}} \text{ kg } \boxed{\phantom{00}} \text{ g} = \boxed{\phantom{00}} \text{ kg}$$

$$20 \quad 9400 \text{ ml} = \boxed{\phantom{00}} \text{ litres } \boxed{\phantom{00}} \text{ ml} = \boxed{\phantom{00}} \text{ litres}$$

Change to km.

$$21 \quad 9 \text{ miles}$$

$$22 \quad 35 \text{ miles}$$

$$23 \quad 80 \text{ miles}$$

$$24 \quad 67 \text{ miles}$$

Change to miles

$$25 \quad 32 \text{ km}$$

$$26 \quad 60 \text{ km}$$

$$27 \quad 96 \text{ km}$$

$$28 \quad 44 \text{ km}$$

**B**

Copy and complete.

- 1  $4.35 \text{ m} = \square \text{ m } \square \text{ cm} = \square \text{ cm}$
- 2  $0.027 \text{ m} = \square \text{ m } \square \text{ mm} = \square \text{ mm}$
- 3  $16.88 \text{ km} = \square \text{ km } \square \text{ m} = \square \text{ m}$
- 4  $0.06 \text{ kg} = \square \text{ kg } \square \text{ g} = \square \text{ g}$
- 5  $3.1 \text{ litres} = \square \text{ litres } \square \text{ ml} = \square \text{ ml}$
- 6  $0.7 \text{ m} = \square \text{ cm} = \square \text{ m } \square \text{ cm}$
- 7  $0.18 \text{ m} = \square \text{ mm} = \square \text{ m } \square \text{ mm}$
- 8  $5.296 \text{ km} = \square \text{ m} = \square \text{ km } \square \text{ m}$
- 9  $0.435 \text{ kg} = \square \text{ g} = \square \text{ kg } \square \text{ g}$
- 10  $0.002 \text{ litres} = \square \text{ ml} = \square \text{ litres } \square \text{ ml}$
- 11  $809 \text{ cm} = \square \text{ m } \square \text{ cm} = \square \text{ m}$
- 12  $2536 \text{ mm} = \square \text{ m } \square \text{ mm} = \square \text{ m}$
- 13  $48 \text{ m} = \square \text{ km } \square \text{ m} = \square \text{ km}$
- 14  $1727 \text{ g} = \square \text{ kg } \square \text{ g} = \square \text{ kg}$
- 15  $93 \text{ ml} = \square \text{ litres } \square \text{ ml} = \square \text{ litres}$
- 16  $6 \text{ cm} = \square \text{ m} = \square \text{ m } \square \text{ cm}$
- 17  $374 \text{ mm} = \square \text{ m} = \square \text{ m } \square \text{ mm}$
- 18  $519 \text{ m} = \square \text{ km} = \square \text{ km } \square \text{ m}$
- 19  $68 \text{ g} = \square \text{ kg} = \square \text{ kg } \square \text{ g}$
- 20  $12\,130 \text{ ml} = \square \text{ litres} = \square \text{ litres } \square \text{ ml}$

Change to km.

Change to miles.

- |                |            |
|----------------|------------|
| 21 22.9 miles  | 25 5.4 km  |
| 22 9.3 miles   | 26 180 km  |
| 23 157.2 miles | 27 17.6 km |
| 24 314.4 miles | 28 78 km   |

**C**Copy and complete by putting  $>$ ,  $<$  or  $=$  in each box.

- 1  $700 \text{ g} \square 0.007 \text{ kg} \square 70 \text{ g}$
- 2  $900 \text{ m} \square 900\,000 \text{ mm} \square 0.009 \text{ km}$
- 3  $0.004 \text{ litres} \square 4 \text{ ml} \square 0.04 \text{ litres}$
- 4  $30 \text{ m} \square 30\,000 \text{ cm} \square 0.3 \text{ km}$
- 5  $8000 \text{ ml} \square 0.8 \text{ litres} \square 800 \text{ ml}$
- 6  $0.2 \text{ cm} \square 0.02 \text{ m} \square 200 \text{ mm}$
- 7  $0.06 \text{ kg} \square 60 \text{ g} \square 0.006 \text{ kg}$
- 8  $50\,000 \text{ mm} \square 0.05 \text{ km} \square 50\,000 \text{ cm}$

Change to km.

Change to miles.

- |                |            |
|----------------|------------|
| 9 0.92 miles   | 13 155 km  |
| 10 219.3 miles | 14 41.8 km |
| 11 6.77 miles  | 15 23.4 km |
| 12 138.6 miles | 16 87 km   |

- 17 The combined weight of 12 identical bricks is 9.45 kg. What does one brick weigh in grams?

- 18 France has 1950 miles of coastline and land borders 2889 km long. Give the length of the country's perimeter in:
- a) miles
  - b) kilometres.



- 19 A serving of custard is 135 ml. How much custard is needed for 18 servings? Give your answer in litres.