

Multiplying and Dividing by Powers of 10 Homework

1.

a. 3×10

b. 21×10

c. 18×100

d. 48×1000

e. 3.2×10

f. 5.1×100

g. 2.74×10

h. 3.92×100

i. 43.16×1000

j. 0.0035×100

2.

a. $40 \div 10$

b. $300 \div 10$

c. $25 \div 10$

d. $821 \div 100$

e. $37 \div 100$

f. $2.9 \div 10$

g. $8.5 \div 100$

h. $0.4 \div 100$

i. $2.91 \div 1000$

j. $0.0048 \div 100$

3.

a. 4×10^5

b. 8.1×10^2

c. 2.61×10^4

d. $920 \div 10^3$

e. $31.9 \div 10^2$

f. $0.34 \div 10^3$

4.

a. Change 4.6 kilometres to metres.

b. Change 1.72 litres to millilitres.

c. Change 8.5 kilograms to grams.

d. Change 850 metres to kilometres.

e. Change 4921 millilitres to litres.




f. Change 75 grams to kilograms.

Challenge

Work out:

a. 7.1×10^{-4}

b. $2.7 \div 10^{-3}$

WWW	Multiplying and Dividing by Powers of 10			
1	Multiplying by 10, 100 and 1000.			
2	Dividing by 10, 100 and 1000.			
3	Multiplying and dividing by positive powers of 10.			
4	Converting between units of measurement.			
Challenge	Multiplying and dividing by negative powers of 10.			
EBI				

Answers

1.

- a. 30
- b. 210
- c. 1800
- d. 48 000
- e. 32
- f. 510
- g. 27.4
- h. 392
- i. 43 160
- j. 0.35

2.

- a. 4
- b. 30
- c. 2.5
- d. 8.21
- e. 0.37
- f. 0.29
- g. 0.085
- h. 0.004
- i. 0.00291
- j. 0.000048

3.

- a. 400 000
- b. 810
- c. 26 100
- d. 0.92
- e. 0.319
- f. 0.00034

4.

a. 4600

b. 1720

c. 8500

d. 0.85

e. 4.921

f. 0.075

Challenge

a. 0.00071

b. 2700