

Decimals

- Read, write, order and compare decimals up to three decimal places
- Add, subtract, multiply and divide decimals up to two decimal places

Recap

Jean is the manager of a bakery.
She finds this list of ingredients for fruit bread.

Fruit bread

500 g flour

14 g yeast

50 g sugar

50 g butter

250 g dried fruit

150 ml milk

Jean has a 15 kg bag of flour.
She wants to use all this flour.

(a) What weight of sugar must Jean use with this flour?

Order the following from smallest to biggest

(a) 3.7, 3.5, 3.9, 3.4, 3.8

(b) 4.6, 4.9, 14.1, 0.9, 1.2

(c) 1.53, 1.48, 1.59, 1.44, 2.11, 0.98

(d) 9.2, 2.9, 5.4, 1.8, 8.7

(e) 8.13, 8.05, 8.24, 8.09, 8.15, 8.02

(f) 0.59, 1.24, 0.45, 1.34, 0.88, 2.01

Adding and subtracting decimals

1) $4.5 + 2.3$

$$\begin{array}{r} 4.5 \\ + 2.3 \\ \hline \\ \hline \end{array}$$

2) $206.2 + 72.8$

$$\begin{array}{r} 206.2 \\ + 72.8 \\ \hline \\ \hline \end{array}$$

Adding and subtracting decimals – your turn

(a) $9.2 + 4.87$ (b) $1.08 + 2.6$ (c) $20.6 + 15.84$ (d) $41.8 + 5.35$

(e) $6.5 - 1.73$ (f) $1.6 - 0.56$ (g) $7.8 - 2.45$ (h) $8.67 - 3.9$

Multiplying and dividing decimals

1) 3.1×0.5

2) 6.3×0.3

Multiplying decimals – your turn

(e)	4.8×0.9	(f)	2.4×3.2	(g)	9.1×1.3	(h)	5.5×7.7
(i)	1.7×4.3	(j)	9.4×4.9	(k)	0.13×0.7	(l)	0.48×0.3
(m)	0.54×0.9	(n)	0.18×0.17	(o)	8.3×0.37	(p)	3.5×0.74
(q)	0.94×0.02	(r)	0.38×0.06	(s)	0.039×0.7	(t)	0.084×1.2

Exam questions

Brenda is going to buy a box of chocolates for each guest at the party.
She sees these two offers.

Sweets4U	Chocolate Direct
 <p>Pack of 6 boxes of chocolates</p> <p>£21 per pack</p>	 <p>Pack of 4 boxes of chocolates</p> <p>£14.50 per pack</p>

Brenda needs to buy 60 boxes of chocolates.

She knows it will be cheaper to buy 60 boxes of chocolates from Sweets4U.

How much cheaper?

(4)

Exam questions

Four apprentices want to raise £200 for charity.

Three of the apprentices raise these amounts.

Name	Amount raised
Harry	£40.60
Leanne	£81.70
Sanjay	£32.50

Sean is going to run around the playing field.
He is going to get £5.70 for each lap.

Sean thinks he needs to run 8 laps to raise the rest of the money.

Is Sean correct?
Show why you think this.

You must show a check of your working.

(5)

Exam questions

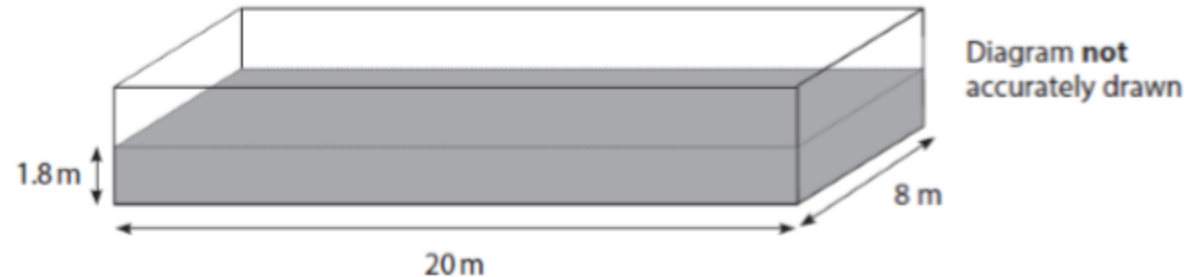
The company advertises its products in France
One French website charges €195 per advert.
The company buys 5 of these adverts.

The exchange rate is £1 = 1.1025 euros

What would be the total cost of the 5 adverts in pounds?

Exam questions

The swimming pool is in the shape of a cuboid 20 metres long and 8 metres wide. It is filled with water to a depth of 1.8 metres.



Charles needs to add chlorine powder to the water in the pool to keep the water clean.

Each week Charles needs to use 300 grams of chlorine powder per 50 m^3 of water. Chlorine powder is sold in boxes. Each box contains 5000 grams of chlorine powder.

Charles thinks that one box will be enough for 4 weeks.

Is one box enough for 4 weeks?
Show why you think this.

(4)

Use the space below to show clearly how you get your answer.

Exam questions

Mark, his wife and their 2 children arrive at the airport.
They take their baggage to the check-in desk.
Their baggage weighs 97.4 kg in total.

Each of the 4 of them has an allowance of 23 kg of check-in baggage.
They have to pay for the baggage over their allowance.

Mark decides to pay with loyalty points.
He has to use 1800 points for each whole kg over the allowance.
Mark has 10 000 points.

Does Mark have enough points for the extra baggage?

(4)

Use the space below to show clearly how you get your answer.

(Total for question = 4 marks)