

N5 Apps Starters

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11/11/2019

Starter 1



Q1. 23×60

Q2a) -4×-8 b) $-11 - (-3)$

Q3. If one book costs £10.99. What is the price of 3 books?

Q4. If 8 pens cost £6.60. What is the cost of one pen? (to the nearest penny)

Q5. Round each of the following to 2 decimal places

a) 3.276 b) 0.881 c) 11.818 d) 11.999

Q6. Round each of the following to 3 significant figures

a) 89562 b) 2.517 c) 0.0007621 d) 0.509945

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11/11/2019

Starter 1 Answers



Q1. 1380

Q2a) 32 b) -8

Q3. £32.97

Q4. 83p

Q5. a) 3.28 b) 0.88 c) 11.82 d) 12.00

Q6. a) 89600 b) 2.52 c) 0.000762 d) 0.510

11/11/2019

Starter 2



Q1. 18×70

Q2a) -9×5 b) $8 - (-8)$

Q3. If it costs £1.99 for a notebook, how much change would I get from a tenner if I bought 4?

Q4. Simplify the following ratios

a) 22:11 b) 14:6 c) 18:32 d) 99:12 e) 42:84

Q5. If 3 rubbers cost 87p, what is the cost of 18 rubbers?

Q6. If 5 tables cost £80, what is the cost of 4 tables?

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Starter 2 Answers



Q1. 1260

Q2a) -45 b) 16

Q3. £2.04

Q4a) 2:1 b) 7:3 c) 9:16 d) 33:4 e) 1:2

Q5. £5.22

Q6. £64

11/11/2019

Starter 3



Q1. 37×50

Q2 Adam saves up £12 a week for 5 weeks. He buys a new game for £44.59. How much money has he got left?

Q3. If 6 footballs cost £22. How much for 12?

Q4. There is a ratio of boys to girls in a class of 4:5. If there are 15 girls, how many boys are there?

Q5. At a restaurant burgers and hotdogs are sold at a ratio of 5:7. If 65 burgers are sold, how many hotdogs?

Q6. Red to Green ratio is 5:3. There are 1527 green. How many red?

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Starter 3 Answers



Q1. 1850

Q2. £15.41

Q3. £44

Q4. 12

Q5. 91

Q6. 2545



Q1. 88×15

Q2 Round 4193123 to two significant figures

Q3. Round 0.0134811 to two significant figures

Q4. If 4 packs of sweet cost £3.80, what is the cost of 5 packs?

Q5. At a restaurant burgers and hotdogs are sold at a ratio of 5:7. 144 burgers and hotdogs are sold in total how much was sold of each?

Q6. Clare, Rory and Sophie all split £450 in a ratio of 4:2:3. How much does each person get?

11/11/2019

Starter 4 Answers



Q1. 1320

Q2. 4200000

Q3. 0.013

Q4. £4.75

Q5. 60 burgers, 84 hotdogs

Q6. 200:100:150



Q1. It costs £3.99 for a magazine, what is the cost of 8 magazines?

Q2 Round 0.6755 to three significant figures

Q3. Simplify the ratio 130 : 75

Q4. A 10kg bag of flour costs £3.80, what is the cost of a 3kg bag?

Q5. There is a ratio of red to black ties in a shop of 3:4. If there are 27 red ties, how many ties are there altogether?

Q6. What is 12% of £30000

11/11/2019

Starter 5 Answers



Q1. £31.92

Q2. 0.676

Q3. 26:15

Q4. £1.14

Q5. 63

Q6. £6600

11/11/2019

Starter 6



Q1. Round 39945 to two significant figures.

Q2 If 3 freddos costs 75p, how much would 10 freddos cost?

Q3. What is 20% of 4800kg

Q4. What is 75% of 2000m

Q5. There is a ratio red to blue of 2:7. If there are 50 red, how many blue?

Q6. What is 45 out of 75 as a percentage?

11/11/2019

Starter 6 Answers



Q1. 40000

Q2. £2.50

Q3. 960kg

Q4. 1500m

Q5. 175

Q6. 60%

11/11/2019

Starter 7



Q1. Round 17655 to the nearest thousand.

Q2 If two pairs of head phones cost £48, what is the cost of 4 pairs?

Q3. What is 10% of 3000kg

Q4. What is 45% of 2000m

Q5. What is $\frac{1}{5}$ of £3.80?

Q6. A house increases in price by 10% per year. If the house was worth £100,000 one year, how much did it cost 2 years later?

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Starter 7 Answers



Q1. 18000

Q2. £96

Q3. 300kg

Q4. 900m

Q5. £0.76 or 76p

Q6. £121,000



Q1. Round 220819 to the nearest hundred.

Q2 If three pairs of head phones cost £66, what is the cost of five pairs?

Q3. What is 20% of 3000kg

Q4. What is 25% of 2000m

Q5. What is $\frac{1}{4}$ of £3.80?

Q6. What is the probability of getting a 3 or a 4 on a dice when you roll it?

11/11/2019

Starter 8 Answers



Q1. 220800

Q2. £110

Q3. 600kg

Q4. 500m

Q5. £0.95 or 95p

Q6. $\frac{1}{3}$

Q1. Round 73813 to 3 significant figures

Q2. What is the probability of getting a score of 12 from rolling two dice?

Q3. What is 17% of 8000kg

Q4. Dave and Katie split money to a ratio of 4:3. If Katie gets £360, how much money do they get altogether?

Q5. The price of a house increases by 4% for 5 years. If it cost £70,000 to begin with then how much did it cost at the end?

11/11/2019

Starter 9 Answers

Q1. 73800

Q2. $1/36$

Q3. 1360

Q4. £840

Q5. £85085.44

11/11/2019

Starter 10



Q1. $1\frac{1}{4} \times \frac{2}{7}$

Q2. $2\frac{2}{3} + 1\frac{1}{5}$

Q3. If there are 3 red balls, 4 blue, 3 green and 6 yellow. What is the probability of drawing a blue at random?

Q4. Increase £20,000 by 15%

Q5. Decrease 800 by 35%

Q6. **Calculator Question:** The amount of bacteria in an experiment increases by 6% every hour. If there were 1000 to begin with, how many would there be after 18 hours?

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Starter 10 Answers

Q1. $5/14$

Q2. $58/15$

Q3. $1/4$

Q4. 23000

Q5. £520

Q6. 2854

Q1. Increase £25000 by 5% for 4 years.

Q2. Decrease £9000 by 7% for 3 years

Q3. A house cost £120000 in the year 2010. If the price went up by 3% every year until 2015. Then how much will it cost in 2015?

Q4. The value of a car decreases by 1.5% every month. If it costs 15000 to begin with. How much will it cost after 2 years?

Q5. A painting is worth £1,000,000 in the year 2000. The value of the painting has risen by 2% every year until 2019. How much more valuable is the painting now than in the year 2000?

11/11/2019

Starter 11 Answers

Q1. £30387.66

Q2. £7239.21

Q3. £139112.89

Q4. £10436.64

Q5. £456811.17 (Remember to take away 1 million)

Q1. A car travels at 35 mph for 1 hour and 30 minutes. How far will it travel

Q2. A man walks 6 miles at a speed of 5mph. How long in hours and minutes will it take him?

Q3. Round the following to 3 significant figures

a) 25877 b) 981123 c) 0.0058271

Q4. Simplify the following ratios

a) 30:45 b) 50:60 c) 120:90

Q5. Joe and Sue share money at the ratio of 3:4. If there is £714 each, how much will each of them get?

Q1. 52.5 miles

Q2. 1 hour 12 minutes

Q3. a)25900 b)981000 c)0.00583

Q4. a) 2:3 b) 5:6 c) 4:3

Q5. Joe = £306, Sue = £408

Q1. Increase £35000 by 2.5% a year for 3 years. Write your answer to the nearest pound.

Q2. £1 = 1.45 dollars. Change £500 into dollars.

Q3. In a school, $\frac{1}{3}$ of the pupils have sandwiches, $\frac{2}{5}$ of the pupils have salads while the remaining have soup. What fraction of pupils have soup?

Q4. A plane leaves London at 7.55pm local time. It arrives in Rome at 00.15 local time. If Rome is two hours ahead of London then how long is the flight?

Q5. At a concert there are 3 kinds of tickets A:B:C. They are divided up a ratio of 2:3:5. If there are 8000 tickets in total then how many are there altogether.

Q1. £37691

Q2. 725 euros

Q3. $\frac{4}{15}$

Q4. 2 hours 20 minutes

Q5. A = 1600, B = 2400, C = 4000

Q1. Increase £54000 by 5.2% a year for 4 years. Write your answer to two significant figures.

Q2. £1 = 1.45 dollars. Change £880 into dollars.

Q3. In a school, $\frac{1}{5}$ of the pupils have sandwiches, $\frac{1}{4}$ of the pupils have salads while the remaining have soup. What fraction of pupils have soup?

Q4. A plane leaves London at 1.25pm local time. It arrives in Rome at 6.05pm local time. If Rome is two hours ahead of London then how long is the flight?

Q5. At a concert there are 3 kinds of tickets A:B:C. They are divided up a ratio of 1:3:2. If there are 6000 tickets in total then how many are of each one.

11/11/2019

Starter 14 Answers

Q1. £66000

Q2. 1276

Q3. $\frac{11}{20}$

Q4. 2 hours 40 minutes

Q5. A = 1000, B = 3000, C = 2000

Q1. Increase £60000 by 2.8% a year for 4 years. Write your answer to two significant figures.

Q2. £1 = 130 Yen. Change 15000 Yen into Pounds

Q3. In a school, $\frac{2}{9}$ of the pupils have sandwiches, $\frac{1}{7}$ of the pupils have salads while the remaining have soup. What fraction of pupils have soup?

Q. At a concert there are 3 kinds of tickets A:B:C in the ratio of 3:2:4. The C tickets cost £12. What is the price of tickets A and B.

11/11/2019

Starter 15 Answers

Q1. £67000

Q2. £115.38

Q3. $\frac{40}{63}$

Q5. A = £6, B = 9

Q1. For each of the following write down the maximum and minimum sizes

- (a) $12 \pm 4\text{kg}$
- (b) $120 \pm 30\text{m}$
- (c) $200 \pm 0.5\text{cm}$
- (d) $3000 \pm 100\text{ml}$

Q2. Write the following in tolerance form

- (a) Max = 40ml, min = 20ml
- (b) Max = 300m, min = 120m
- (c) Max = 10ml, min = 7ml

Q3. The following bottles of juice must be within a tolerance of $500\text{ml} \pm 2.5$.

Which of the following would be rejected.

501.1ml 497ml 498.2ml 0.51L 497.4ml

11/11/2019

Starter 16 Answers

Q1a) Min = 8kg, Max = 16kg

b) Min = 90m, Max = 150m

c) Min = 199.5cm, Max = 200.5cm

d) Min 2900ml, Max = 3100ml

Q2. 30ml \pm 10

b) 210m \pm 90

c) 8.5ml \pm 1.5

Q3. 497ml, 0.51L, 497.4ml

Q1. Write the following in tolerance form

(a) Max = 80ml, min = 200ml

(b) Max = 1200m, min = 300m

(c) Max = 60ml, min = 12ml

Q2. The following bottles of juice must be within the tolerance levels of $500\text{ml} \pm 1.75$.

Here is a list of bottles produced in millilitres;

502.1	498.5	500.65	500.9	499.2	498.2	500.4
501.3	500.1	499.4	500.7	498.1	501.8	
501.3	500.4	499.25				

Does the company have a success rate above 75%?

Q1a) $140 \pm 60 \text{ml}$

b) $750 \pm 450 \text{m}$

c) $36 \pm 24 \text{ml}$

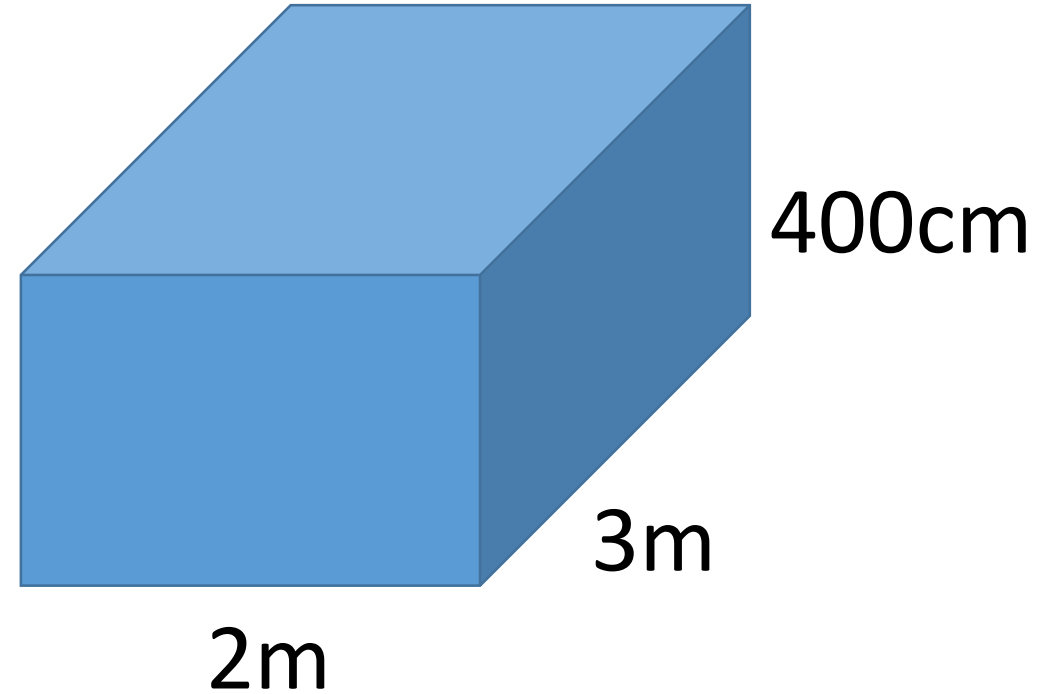
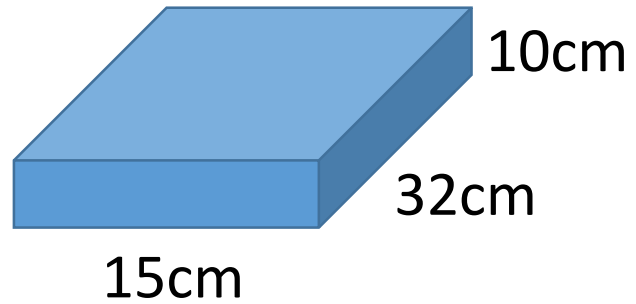
Q2. $12/16 = 3/4 = 0.75$ 75%

No it is not above 75%.

11/11/2019

Starter 18

Q1. What is the most about of boxes you can fit in the container. Justify you answer with working.



Starter 18 Answers

Q1

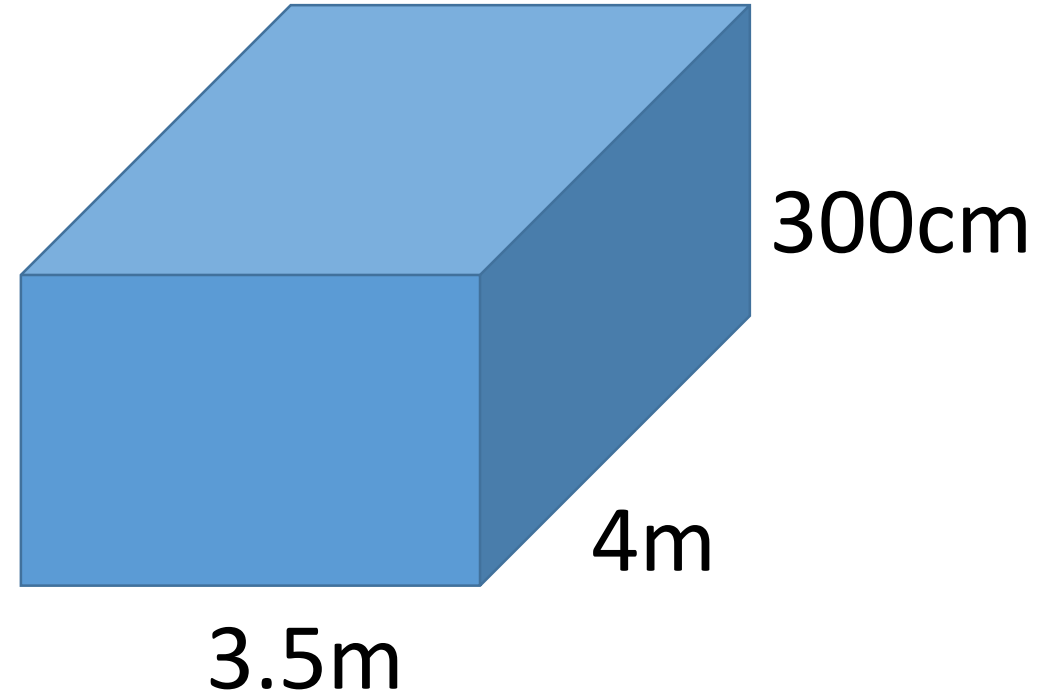
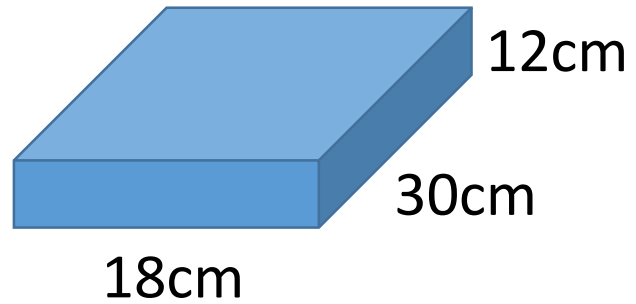
200	300	150	Total
12	24	8	3456
12	8	24	3552
24	12	8	3600
24	8	12	3552
8	24	12	3600
8 25	12 25	24 6	3750

3750 is the maximum number of boxes

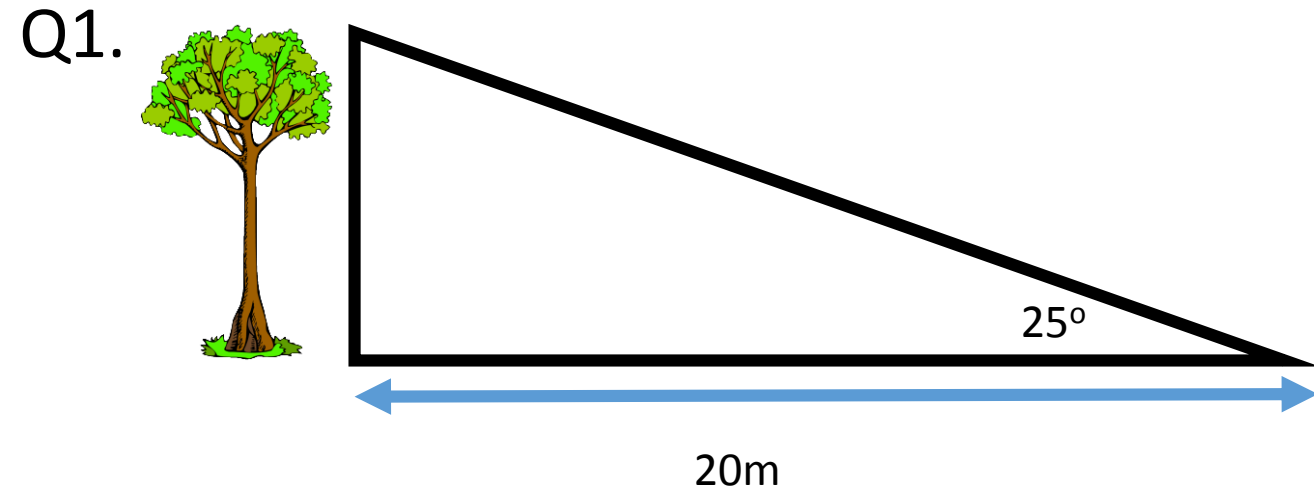
11/11/2019

Starter 19

Q1. What is the most about of boxes you can fit in the container. Justify you answer with working.



6380 is the most number of boxes
you fit in the contain.



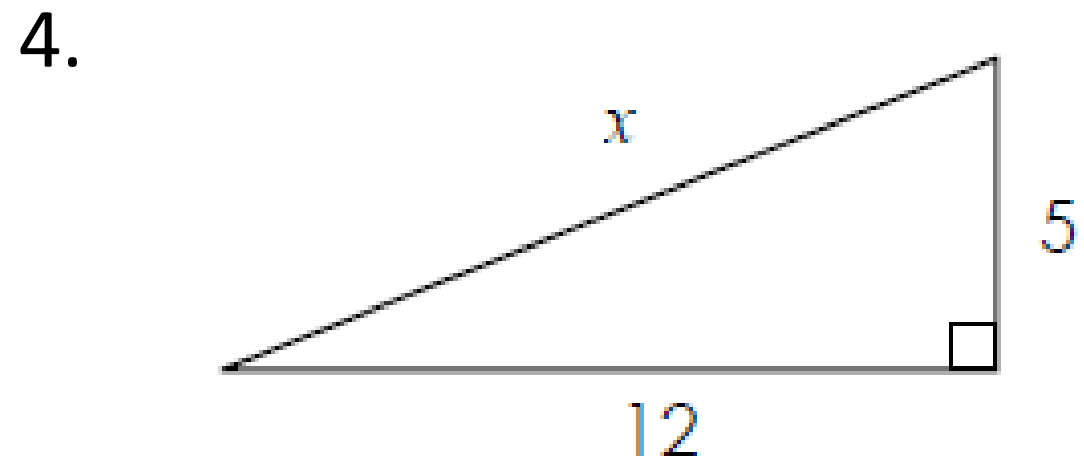
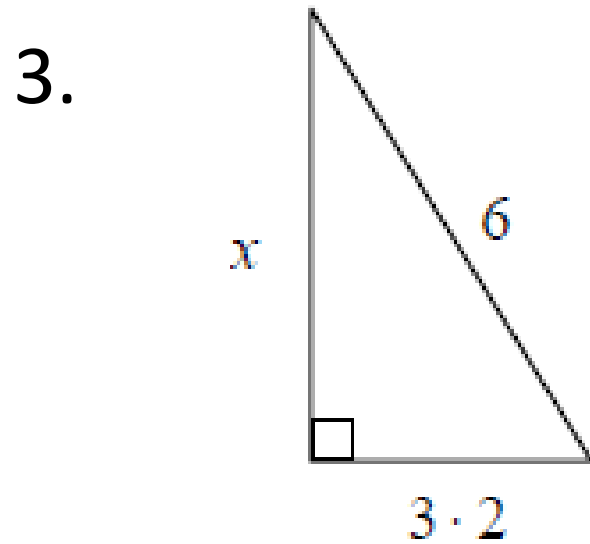
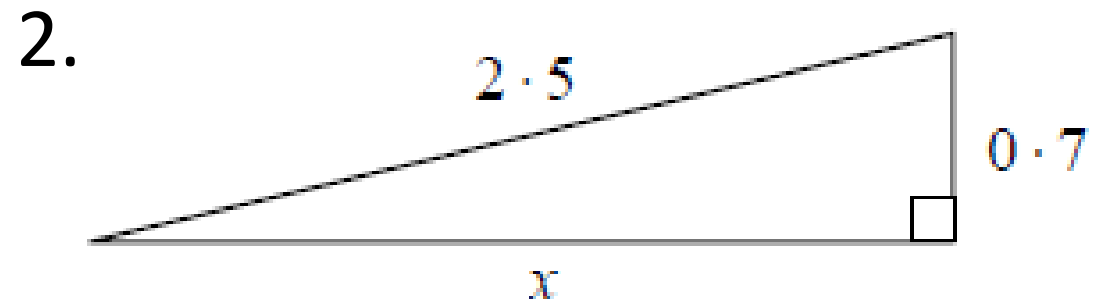
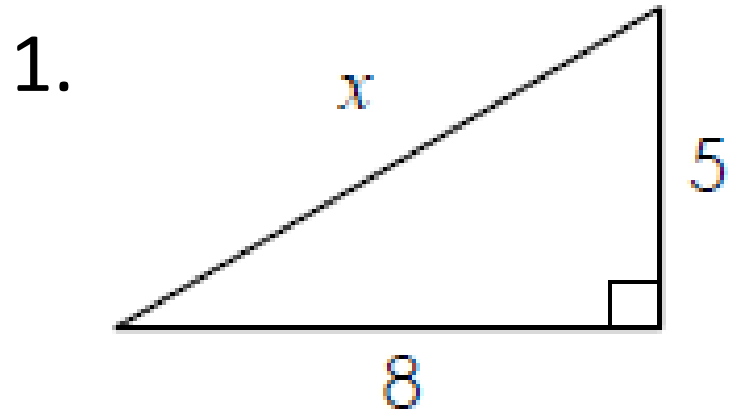
Using a scale of $1\text{cm} = 4\text{m}$. Work out the height of the tree.

Q2. Increase £14000 by 5% for 4 years

Q3. A 10kg bag of flour costs £4.20, what is the cost of a 3kg bag

Q4. Ryan, Tim and Sally share £300 between them in a ratio of 4:3:3 respectively. How much more does Ryan get than Tim or Sally?

1. Between 9 and 11m
2. £17017.08
3. £1.26
4. £30 more than Tim or Sally



Write your answer to 1 decimal place.

Starter 21 Answers

1. 9.4

2. 2.6

3. 6.8

4. 13.0

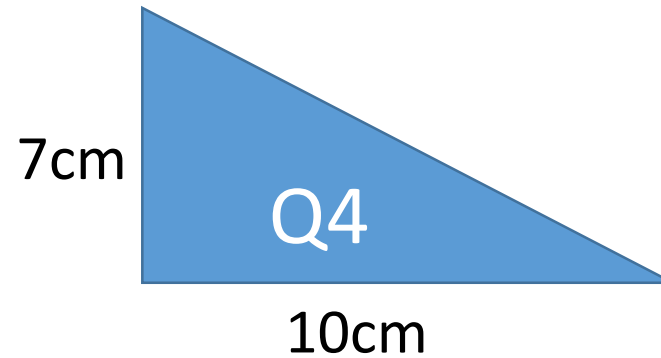
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Starter 22

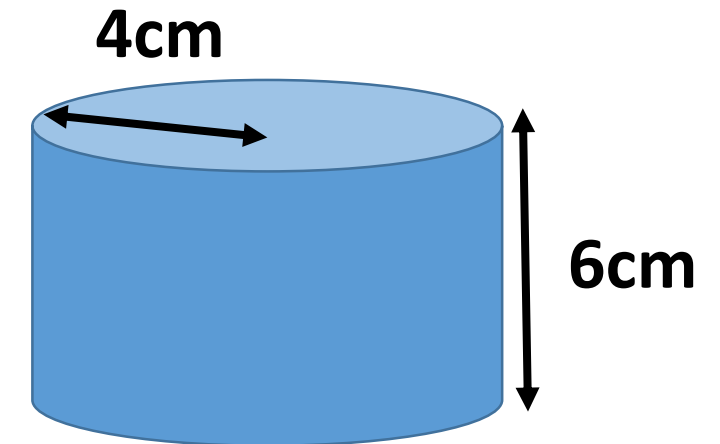
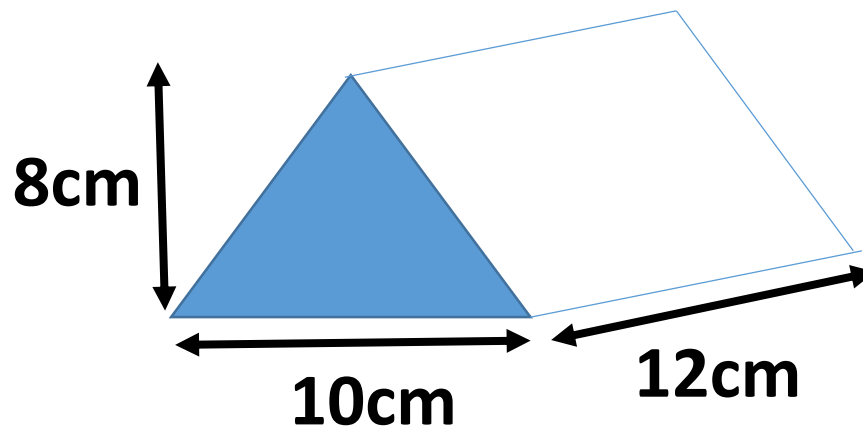
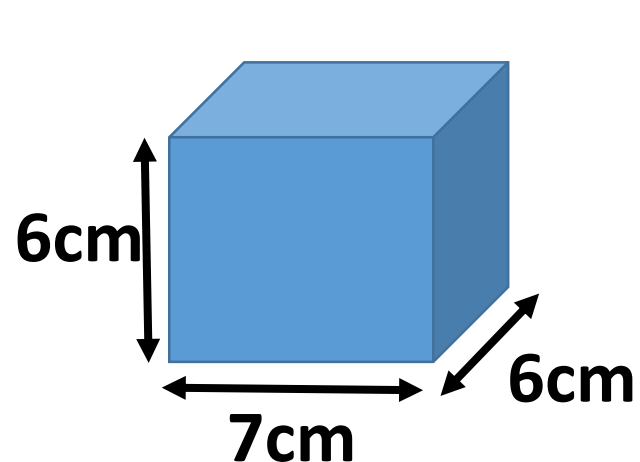
1. Decrease £25000 by 4% for 3 years. Write your answer to the nearest pound.
2. The sizes of coins can be $2.5\text{mm} \pm 0.05$. What is the maximum and minimum sizes?

3. Write 30 out of 40 as a percentage

4. Find the perimeter of this triangle



5. Find the volume of the shapes below.



1. £22118

2. Max = 2.55, Min = 2.45

3. 75%

4. 29.2cm

5a. 252 cm^3

b. 480 cm^3

c. 302 cm^3