

1 Work out an estimate for the value of $\frac{48.7 \times 61.2}{11.3}$
(3 marks)

2 Work out an estimate for the value of $\frac{41.2 \times 19.8}{0.49}$
(3 marks)

3 Work out an estimate for the value of $\frac{28.4 \times 21.05}{5.9}$
(3 marks)

4 Work out an estimate for the value of $\frac{7.4 + 23.05}{0.196}$
(3 marks)

5 Work out an estimate for the value of $\frac{91.25 \times 4.87}{2.31}$
(3 marks)

6 Work out an estimate for the value of $\frac{18.3 + 62.8}{0.13}$
(3 marks)

7 Work out an estimate for the value of $\frac{21.75 + \sqrt{98.1}}{0.192}$
(3 marks)

8 Work out an estimate for the value of $\frac{8.3 \times 18.7}{0.52}$
(3 marks)

9 Eddie and Ellen use a calculator to work out $\frac{431.1}{14.3 + 3.8^2}$
Eddie's answer is 1.5
Ellen's answer is 15
One of those answers is correct.
Use approximations to find out which answer is correct.
(3 marks)

10 Ciara drives an average of 43.6 miles per week
(a) Work out an estimate for the number of miles Ciara drives in a year. (2)
(b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer. (1)
(3 marks)

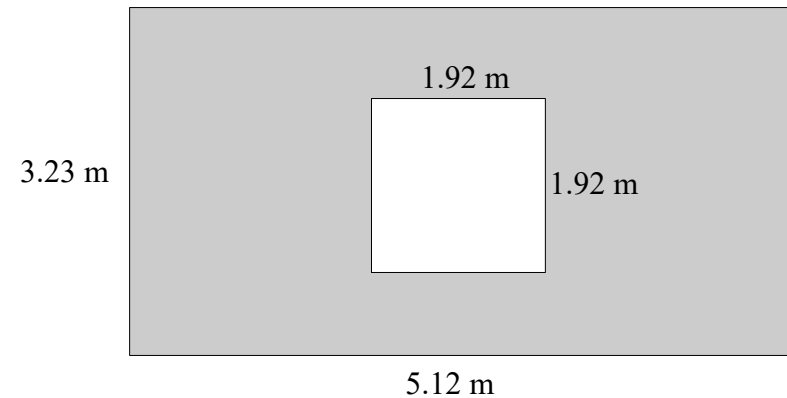
11 Dennis gets paid £8.21 per hour he works.
Each week Dennis works 41 hours.
(a) Work out an estimate for the amount Dennis gets paid in a week. (2)
(b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer. (1)
(3 marks)

- 12** Mr Sykes wants to buy a calculator for every student in year 11.
There are 104 students in year 11.
Each calculator costs £6.05
- (a) Work out an estimate for the amount of money Mr Sykes will spend on calculators. (2)
- (b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer. (1)
- (3 marks)**
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- 13** Phoebe's pays 2.8 pence per minute to use her phone.
On average Phoebe uses her phone for 77 minutes per day.
She pays the phone bill for 29 days.
- (a) Work out an estimate for how much Phoebe pays. (2)
- (b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer. (1)
- (3 marks)**
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- 14** A circle has a radius of 11 metres.
- (a) Work out an estimate for the area of the circle. (3)
- (b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer. (1)
- (4 marks)**
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- 15** A shape is formed by cutting a square out of a rectangle.



- (a) Work out an estimate for the area of the shape. (3)
- (b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer. (1)
- (4 marks)**
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- 16** A baby was born every 43 seconds in the UK in 2018
- Work out an estimate for the total number of babies born in the UK in 2018.
- You must show how you get your answer.
- (4 marks)**
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