

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

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

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

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

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

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

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

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

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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)**

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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)**

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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)**

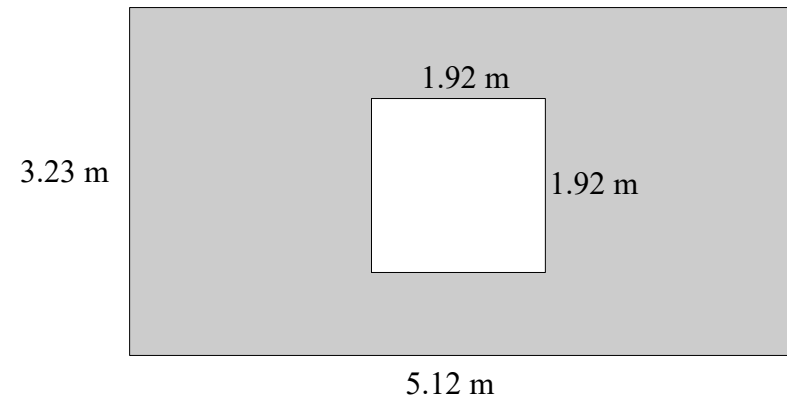
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- 12** Mr Sykes wants to buy a calculator for every student in year 11.  
There are 104 students in year 11.  
Each calculator costs £6.05
- (a) Work out an estimate for the amount of money Mr Sykes will spend on calculators. (2)
- (b) Is your answer 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 her 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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