

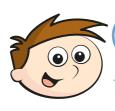
Estimate the answer to a calculation



a)	41 × 34	30 × 30	40 × 30	40 × 40	50 × 30
٠.,] 50 50		10 10	50 50

b)
$$68 \times 74$$
 70×70 60×70 70×80 50×70

Teddy is working out 37×68



I'm going to round both numbers to 1 significant figure to get an estimate first.

a) Complete Teddy's workings.

b) Will this estimate be smaller than or greater than the actual answer to 37 × 68?



c) Use your calculator to work out 37 x 68 to check your answer.
Discuss the answer with a partner and how it compares to your estimate.



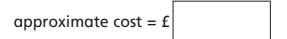
Her mum buys some treats for all the children.

Estimate the cost of buying each item.

GHOCOLATE



b)

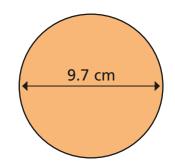


approximate cost = f

Esther is using a calculator to work out the area of the circle.

She gets this answer.





a) Explain how you know Esther's answer must be wrong.

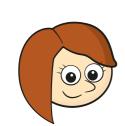
b) Use $\pi = 3$ to estimate the circumference of the circle.

5 Estimate the area of the rectangle.



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Rosie is working out 5,624 ÷ 1.9



I'm going to round both numbers to one significant figure to get an estimate first.

Complete Rosie's workings.

5,624 to 1	significant figure =	
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- Estimate the answers to the divisions. Show your workings.
 - a) $487 \div 5.1$
- $625 \div 2.8$
- $8,450 \div 7.9$











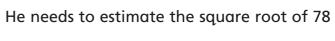
To estimate the answer to $238 \div 2.99$, I'm going to round 238 to 240 instead of 200



Explain why Ron's strategy is a good one.



a) Filip has not got his calculator.



Complete his workings.

$$78 > 64$$
, so $\sqrt{78} > 8$

b) Use Filip's method to work out two consecutive integers between which these roots lie.

$\sqrt{19}$ is between	and	

$$\sqrt{50}$$
 is between and

$\sqrt{110}$ is between		and	
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Work out estimates for the answers to the calculations.

a)
$$\frac{47 \times 29}{209}$$

c)
$$\frac{193^2}{9.23 - 4.812}$$

a)
$$\frac{47 \times 29}{209}$$
 c) $\frac{193^2}{9.23 - 4.812}$ e) $\frac{3,175 + 6,842}{2.2 \times 4.9}$

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b)
$$\frac{47 \times 29}{2,090}$$

d)
$$\frac{32 \times 59}{61 \times 29}$$

f)
$$\frac{86 \times 91}{0.51}$$







