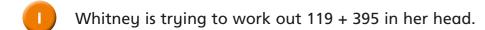
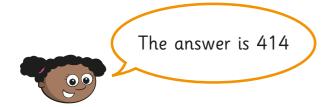
7/

Røse

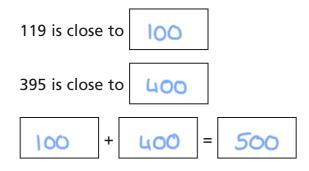
Maths

Use estimation as a method for checking mental calculations





a) Complete the sentences to estimate the answer.



- **b)** Do you think Whitney is correct, based on your estimate? NO Explain your answer.
- Mrs Rose has given her class a question.



The answer is 33

a) Use estimation to show that Ron is incorrect.

b) Discuss with a partner what mistake you think Ron made.



For each calculation:

- estimate the answer to the question in your head
- work out the answer in your head.

Complete the table.

Calculation	My estimate	My answer
900 + 3,900	5,000	4,800
701 – 295	400	406
99 × 3	300	297
196 ÷ 2	100	98

Use estimation to explain why the statements must be true.

a)

500 + 1,000 = 1,500 459 < 500 and 972 < 1,000

b)

30×6=180 32 > 30

c)

$$\sqrt{69} > 8$$

 $\sqrt{64} = 8$

69 764

d)

 $\sqrt{4,500}$ < 70

 $\sqrt{4,900} = 70$ 4,500 < 4,900

Some students have tried to work out some calculations mentally.

a) 19×7

The answer is 133

Do you agree with Rosie? <u>Yes</u>

Use estimation to explain your answer.

19 < 20 so 19 × 7 < 140 20 ×7 = 140

b) 39 × 5

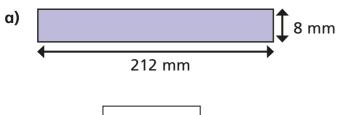
The answer is 205

Do you agree with Amir? No

Use estimation to explain your answer.

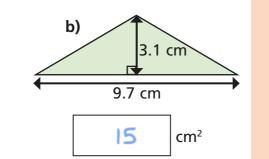
 $40 \times 5 = 200$ 39 < 40 so $39 \times 5 < 200$

Estimate the areas of the shapes.



 mm^2

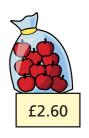
1,600



Mrs Lee wants to buy these items.









She has £10 to spend.

Use estimation to decide if Mrs Lee has enough money.

Tick your answer.

She has enough money.

She doesn't have enough money.

Compare estimates with a partner.

Filip receives £10 for his birthday.

£1.89

He wants to buy as many packs of cards as he can.



a) Estimate how many packs he can buy. b) Explain how you arrived at your estimate.

E10 + E2 = 5

Estimate the answers to the calculations.

f3.85 + f2.12 + f3.44

 $\frac{2}{5}$ of 59

 18.94×9

E9

24

180