

GCSE Mathematics

F

Estimation Practice

Foundation, Grade 3-5

Total Marks	Time	Questions
40	40 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions

Q1 

Grade 3

Edexcel style

By rounding each number to 1 significant figure, estimate the value of 312×48 .

Answer _____

teachably

[2 marks]

Q2 

Grade 4

Edexcel style

By rounding each number to 1 significant figure, estimate the value of $\frac{19.6 \times 5.2}{0.48}$.

Answer _____

teachably

[2 marks]

Q3 

Grade 4

Edexcel style

By rounding each number to 1 significant figure, estimate the value of 6.8×3.2 .

Answer _____

teachably

[2 marks]

Q4

Grade 5

Edexcel style

$\sqrt{70}$ lies between two consecutive whole numbers. Find these two numbers.

Answer

teachably

[2 marks]**Q5**

Grade 5

Edexcel style

A theatre has 48 rows with 31 seats in each row. By rounding each number to 1 significant figure, estimate the total number of seats.

Answer

teachably

[2 marks]

AQA-style questions

Q6 

Grade 3

AQA style

By rounding each number to 1 significant figure, estimate the value of 89×21 .

Answer _____

teachably

[2 marks]

Q7 

Grade 4

AQA style

By rounding each number to 1 significant figure, estimate the value of $\frac{312 \times 6.8}{29}$.

Answer _____

teachably

[2 marks]

Q8 

Grade 4

AQA style

By rounding each number to 1 significant figure, estimate the value of 0.52×18.9 .

Answer _____

teachably

[2 marks]

Q9

Grade 5

AQA style

$\sqrt{130}$ lies between two consecutive whole numbers. Find these two numbers.

Answer

teachably

[2 marks]**Q10**

Grade 5

AQA style

A box of chocolates costs £3.85 and Priya buys 21 boxes. By rounding each number to 1 significant figure, estimate the total cost.

Answer

teachably

[2 marks]

OCR-style questions

Q11 

Grade 3

OCR style

By rounding each number to 1 significant figure, estimate the value of $612 \div 19$.

Answer _____

teachably

[2 marks]

Q12 

Grade 4

OCR style

By rounding each number to 1 significant figure, estimate the value of $\frac{48.3 \times 9.7}{5.1}$.

Answer _____

teachably

[2 marks]

Q13 

Grade 4

OCR style

By rounding each number to 1 significant figure, estimate the value of $41.6 \div 7.9$.

Answer _____

teachably

[2 marks]

Q14

Grade 5

OCR style

$\sqrt{40}$ lies between two consecutive whole numbers. Find these two numbers.

Answer

teachably

[2 marks]**Q15**

Grade 5

OCR style

A car travels at approximately 62 mph for 3.9 hours. By rounding each number to 1 significant figure, estimate the total distance travelled.

Answer

teachably

[2 marks]

Teachably-style questions

Q16 

Grade 3

Teachably style

By rounding each number to 1 significant figure, estimate the value of $288 \div 29$.

Answer _____

teachably

[2 marks]

Q17 

Grade 4

Teachably style

By rounding each number to 1 significant figure, estimate the value of $\frac{198 \times 4.1}{41}$.

Answer _____

teachably

[2 marks]

Q18 

Grade 4

Teachably style

By rounding each number to 1 significant figure, estimate the value of 0.093×612 .

Answer _____

teachably

[2 marks]

Q19 

Grade 5

Teachably style

$\sqrt{200}$ lies between two consecutive whole numbers. Find these two numbers.

Answer _____

teachably

[2 marks]

Q20 

Grade 5

Teachably style

A school has 587 students and each student needs 1.9 exercise books. By rounding each number to 1 significant figure, estimate the total number of exercise books needed.

Answer _____

teachably

[2 marks]

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