

Rounding - Worksheet

Skill

Group A - Rounding to the nearest 10, 100 and 1000

Round these numbers to the nearest 10, 100 or 1000:

- | | | |
|---------------------------|-----------------------------|-------------------------------|
| 1) 23 to the nearest 10 | 2) 231 to the nearest 100 | 3) 2315 to the nearest 1000 |
| 4) 47 to the nearest 10 | 5) 476 to the nearest 100 | 6) 4768 to the nearest 1000 |
| 7) 39 to the nearest 10 | 8) 391 to the nearest 100 | 9) 3915 to the nearest 1000 |
| 10) 362 to the nearest 10 | 11) 3621 to the nearest 100 | 12) 36214 to the nearest 1000 |
-

Group B - Rounding to decimal places

Round these numbers to the given number of decimal places:

- | | | |
|---------------------|----------------------|-----------------------|
| 1) 0.14 to 1 d.p. | 2) 0.146 to 2 d.p. | 3) 0.1467 to 3 d.p. |
| 4) 0.37 to 1 d.p. | 5) 0.374 to 2 d.p. | 6) 0.3741 to 3 d.p. |
| 7) 0.59 to 1 d.p. | 8) 0.593 to 2 d.p. | 9) 0.5938 to 3 d.p. |
| 10) 0.712 to 1 d.p. | 11) 0.7124 to 2 d.p. | 12) 0.71245 to 3 d.p. |
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Group C - Rounding to significant figures

Round these number to the given number of significant figures:

- | | | |
|--------------------|---------------------|----------------------|
| 1) 68 to 1 s.f. | 2) 681 to 2 s.f. | 3) 6817 to 3 s.f. |
| 4) 34 to 1 s.f. | 5) 348 to 2 s.f. | 6) 3489 to 3 s.f. |
| 7) 8.7 to 1 s.f. | 8) 8.75 to 2 s.f. | 9) 8.752 to 3 s.f. |
| 10) 9.21 to 1 s.f. | 11) 9.217 to 2 s.f. | 12) 9.2176 to 3 s.f. |

Rounding - Worksheet

Applied

- 1) (a) Truncate 34.568 to 1 decimal place.

(b) Truncate 34.568 to 2 decimal places.

- 2) (a) There are 70 fish in a pond to 1 significant figure.
What's the least number of fish that can be found in the pond?

(b) There are 120 fish in a pond to 2 significant figures.
What's the greatest number of fish that can be found in the pond?

- 3) (a) Use a calculator to work out 27.41×53.72 and write your answer correct to the nearest 100.

(b) Use a calculator to work out $39.12 \div 27.31$ and write your answer correct to 2 decimal places.

- 4) (a) Estimate 421×392 .

(b) Estimate 36.1×8.79 .

Rounding - Exam Questions

- 1) (a) Write 46832 correct to the nearest 1000.
(1 mark)
-
- 2) (a) Write 4800 correct to one significant figure.
(1)
- (b) Write 3.26 correct to one significant figure.
(1)
(2 marks)
-
- 3) (a) Estimate: $\frac{197 \times 432}{75}$
(3 marks)
-
- 4) (a) Use a calculator to work out: $\sqrt{25.3 \times 42.7}$
Write down all the figures on your calculator display. (2)
- (b) Round your answer to part (a) correct to 2 decimal places.
(1)
(3 marks)

Rounding - Answers

	Question	Answer
	Skill Questions	
Group A	Round these numbers: 1) 23 to the nearest 10 2) 231 to the nearest 100 3) 2315 to the nearest 1000 4) 47 to the nearest 10 5) 476 to the nearest 100 6) 4768 to the nearest 1000 7) 39 to the nearest 10 8) 391 to the nearest 100 9) 3915 to the nearest 1000 10) 362 to the nearest 10 11) 3621 to the nearest 100 12) 36214 to the nearest 1000	1) 20 2) 200 3) 2000 4) 50 5) 500 6) 5000 7) 40 8) 400 9) 4000 10) 360 11) 3600 12) 36000
Group B	Round these numbers to the given number of decimal places: 1) 0.14 to 1 d.p. 2) 0.146 to 2 d.p. 3) 0.1467 to 3 d.p. 4) 0.37 to 1 d.p. 5) 0.374 to 2 d.p. 6) 0.3741 to 3 d.p. 7) 0.59 to 1 d.p. 8) 0.593 to 2 d.p. 9) 0.5938 to 3 d.p. 10) 0.712 to 1 d.p. 11) 0.7124 to 2 d.p. 12) 0.71245 to 3 d.p.	1) 0.1 2) 0.15 3) 0.147 4) 0.4 5) 0.37 6) 0.374 7) 0.6 8) 0.59 9) 0.594 10) 0.7 11) 0.71 12) 0.712

Rounding - Answers

Group C	Round these number to the given number of significant figures: 1) 68 to 1 s.f. 2) 681 to 2 s.f. 3) 6817 to 3 s.f. 4) 34 to 1 s.f. 5) 348 to 2 s.f. 6) 3489 to 3 s.f. 7) 8.7 to 1 s.f. 8) 8.75 to 2 s.f. 9) 8.752 to 3 s.f. 10) 9.21 to 1 s.f. 11) 9.217 to 2 s.f. 12) 9.2176 to 3 s.f.	1) 70 2) 680 3) 6820 4) 30 5) 350 6) 3490 7) 9 8) 8.8 9) 8.75 10) 9 11) 9.2 12) 9.22
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Rounding - Answers

	Question	Answer
	Applied Questions	
1)	a) Truncate 34.568 to 1 decimal place.	a) 34.5
	b) Truncate 34.568 to 2 decimal places.	b) 34.56
2)	a) There are 70 fish in a pond to 1 significant figure. What's the least number of fish that can be found in the pond?	a) 65
	b) There are 120 fish in a pond to 2 significant figures. What's the greatest number of fish that can be found in the pond?	b) 124
3)	a) Use a calculator to work out 27.41×53.72 and write your answer correct to the nearest 100.	a) 1500
	b) Use a calculator to work out $39.12 \div 27.31$ and write your answer correct to 2 decimal places.	b) 1.43
4)	a) Estimate 421×392	a) 160 000
	b) Estimate 36.1×8.79 .	b) 360

Rounding - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Write 46832 correct to the nearest 1000.	47000	(1)
2) (a)	Write 4800 correct to one significant figure.	(a) 5000	(1)
(b)	Write 3.26 correct to one significant figure.	(b) 3	(1)
3)	Estimate: $\frac{197 \times 432}{75}$	200 or 400 or 80 (1)	(1)
		for writing the calculation with all 3 rounded numbers	(1)
		1000	(1)
4) (a)	Use a calculator to work out: $\sqrt{25.3 \times 42.7}$	(a) $\sqrt{1080.31...}$	(1)
	Write down all the figures on your calculator display.	32.86806961	(1)
(b)	Round your answer to part (a) correct to 2 decimal places	(b) 32.87	(1)

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