

WA4MNAPV1

Understanding number

Core + Challenge

Rounding to 10, 100 & 1,000

I can round whole numbers to the nearest 10, 100 and 1,000 (and beyond).

Name: _____ Date: _____ Score: / 53

Key idea

Rounding: look at the digit immediately to the right of the place you're rounding to. 5 or more → round up. Below 5 → round down (stay the same). Every digit to the right of the rounding place becomes zero.

E.g. round **3,458** to the nearest 100: the tens digit is 5, so round up → **3,500**.

A Fluency *practise the skill*

/16 marks

Q1–4 round to the nearest 10. Q5–8 round to the nearest 100. Q9–12 round to the nearest 1,000. Q13–16 are rounding challenges, including numbers beyond 100,000.

1. Round 48 to the nearest 10. _____

2. Round 82 to the nearest 10. _____

3. Round 345 to the nearest 10. _____

4. Round 671 to the nearest 10. _____

5. Round 263 to the nearest 100. _____

6. Round 740 to the nearest 100. _____

7. Round 3,458 to the nearest 100. _____

8. Round 6,049 to the nearest 100. _____

9. Round 4,500 to the nearest 1,000. _____

10. Round 2,399 to the nearest 1,000. _____

11. Round 17,650 to the nearest 1,000. _____

12. Round 54,210 to the nearest 1,000. _____

13. Round 95 to the nearest 10. _____

14. Round 9,950 to the nearest 100. _____

15. Round 125,340 to the nearest 10,000. _____

16. Round 683,210 to the nearest 100,000. _____

B Core *apply the skill to problems*

/21 marks

1

A school has 2,847 students enrolled. Round this number to the nearest 10, the nearest 100, and the nearest 1,000.

[3 marks]

Answer: _____

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2

A charity wants to report its total raised, \$68,742, rounded to the nearest thousand dollars for a press release. What amount should they report? Explain how you decided whether to round up or down.

[4 marks]

Answer: _____

3

Two different numbers both round to 400 when rounded to the nearest 100. Write two numbers that could be the originals, and describe the full range of numbers that round to 400.

[3 marks]

Answer: _____

4

A stadium's attendance was 47,382. Round this number to the nearest 10, nearest 100, nearest 1,000 and nearest 10,000.

[4 marks]

Answer: _____

5

A number rounds to 8,000 when rounded to the nearest 1,000, but rounds to 7,950 when rounded to the nearest 10. Find a number that satisfies both conditions and explain your reasoning.

[3 marks]

Answer: _____

6

A number line shows 36,500 exactly halfway between two multiples of 1,000. Which multiples of 1,000 are these? Which one does 36,500 round to, and why?

[4 marks]

Answer: _____

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C**Reasoning** *explain, justify and check***/9 marks****1**

Explain why we look at the digit immediately to the right of the place we are rounding to, rather than any other digit.

[2 marks]**2**

Tom rounds 749 to the nearest 100 and gets 800. Is he correct? Explain.

[2 marks]**3**

Explain why rounding 2,500 to the nearest 1,000 does not give the same result as rounding 2,499 to the nearest 1,000, even though the numbers are only 1 apart.

[2 marks]**4**

Max says that if the units digit of a number is 5, the number always rounds up when rounding to the nearest 10. Test his idea with two examples and explain whether he is correct.

[3 marks]**D****Challenge** *multi-step and problem-solving***/7 marks****1**

Find the smallest whole number that rounds to 7,000 when rounded to the nearest 1,000.

[2 marks]

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Answer: _____

2

Find the largest whole number that rounds to 7,000 when rounded to the nearest 1,000.

[2 marks]

Answer: _____

3

A number rounds to 450,000 when rounded to the nearest 10,000, and also rounds to 453,000 when rounded to the nearest 1,000. Find one number that satisfies both conditions, and explain your reasoning.

[3 marks]

Answer: _____

How did I go?

Fluency ___/16 Core ___/21 Reasoning ___/9 Challenge ___/7 **Total ___/53**

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