

Fractions Solve Problems with Rounding Maths Mastery Challenge Cards **Answers**

1. Pavel has to explain how to round 3.6 to the nearest whole number. Use the blank number line to help Pavel.



Accept a correct explanation. For example, 3.6 is between the whole numbers 3 and 4.

3.6 is closer to the whole number 4 than to the whole number 3 so 3.6 is rounded to 4.

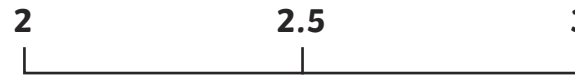
2. George has to explain how to round 6.3 to the nearest whole number. Use the blank number line to help George.



Accept a correct explanation. For example, 6.3 is between the whole numbers 6 and 7.

6.3 is closer to the whole number 6 than to the whole number 7 so 6.3 is rounded to 6.

3. Nikita has to explain how to round 2.5 to the nearest whole number. Use the blank number line to help Nikita.



Accept a correct explanation. For example, 2.5 is between the whole numbers 2 and 3.

2.5 is halfway between the whole numbers 2 and 3. By convention, 5 is rounded up to the next whole number so 2.5 is rounded to 3.

4. Nikita has to explain how to round 1.37 to the nearest tenth. Use the blank number line to help Nikita.



Accept a correct explanation. For example, 1.37 is between the numbers 1.3 and 1.4.

1.37 is closer to 1.4 than 1.3 so 1.37 is rounded to 1.4.

5. Pavel has to explain how to round 6.13 to the nearest tenth. Use the blank number line to help Pavel.



Accept a correct explanation. For example, 6.13 is between the numbers 6.1 and 6.2.

6.13 is closer to the number 6.1 than to the number 6.2 so 6.13 is rounded to 6.1.

6. George has to explain how to round 4.95 to the nearest tenth. Use the blank number line to help George.



Accept a correct explanation. For example, 4.95 is between the numbers 4.9 and 5.

4.95 is halfway between the numbers 4.9 and 5. By convention, 5 is rounded up so 4.95 is rounded to 5.

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7. Pavel has to explain how to round 1.368 to the nearest hundredth. Use the blank number line to help Pavel.



Accept a correct explanation. For example, 1.368 is between the numbers 1.36 and 1.37.

1.368 is closer to 1.37 than 1.36 so 1.368 is rounded to 1.37.

8. Pavel needs to round the following amounts of money to the nearest one pence.

Half of £2.79 **£1.40**

75% of £3.45 **£2.59**

$\frac{1}{3}$ of £14.20 **£4.73**

40% of £26.49 **£10.60**

9. Nikita needs to round the following measurements of water.

Half of 750ml rounded to the nearest tenth of a litre. **375ml rounds to 0.4l.**

25% of 340ml rounded to the nearest tenth of a litre. **85ml rounds to 0.1l.**

$\frac{2}{3}$ of 4l rounded to the nearest hundredth of a litre. **2.666l rounds to 2.67l**

90% of 435ml rounded to the nearest millilitre. **0.3915l rounds to 0.392l**

10. George needs to round the following lengths.

50% of 345cm rounded to the nearest metre. **172.5cm = 1.725m rounds to 2m**

$\frac{3}{4}$ of 5.4m rounded to the nearest tenth of a metre. **4.05m rounds to 4.1m**

30% of 475mm rounded to the nearest centimetre. **142.5mm = 14.25cm rounds to 14cm**

$\frac{4}{5}$ of 23.4cm rounded to the nearest millimetre. **18.72cm = 187.2mm rounds to 187mm**

11. Pavel needs to round the following weights.

$\frac{1}{2}$ of 16.7kg rounded to the nearest kilogram. **8.35kg rounds to 8kg**

25% of 345g rounded to the nearest gram. **86.25g rounds to 86g**

65% of 7.2kg rounded to the nearest tenth of a kilogram. **4.68kg rounds to 4.7kg**

$\frac{7}{8}$ of 5kg rounded to the nearest ten grams. **4.375kg rounds to 4.38kg**