Reasoning and Problem Solving Step 19: Fraction of an Amount

National Curriculum Objectives:

Mathematics Year 5: (5C8c) <u>Solve problems involving multiplication and division, including</u> scaling by simple fractions and problems involving simple rates

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use the number cards to complete the statement. Includes 2 missing numbers and unit fractions only.

Expected Use the number cards to complete the statement. Includes 4 missing numbers and non-unit fractions only.

Greater Depth Use the number cards to complete the statement. Includes 4 missing numbers and improper fractions.

Questions 2, 5 and 8 (Reasoning)

Developing Explain which statement or calculation is the odd one out. Includes unit fractions only.

Expected Explain which statement or calculation is the odd one out. Includes non-unit fractions only.

Greater Depth Explain which statement or calculation is the odd one out. Includes improper fractions.

Questions 3, 6 and 9 (Problem Solving)

Developing Calculate fractions of an amount to solve a word problem. Includes unit fractions only.

Expected Calculate fractions of an amount to solve a word problem. Includes non-unit fractions only.

Greater Depth Calculate fractions of an amount to solve a word problem. Includes improper fractions.

More <u>Year 5 Fractions</u> resources.

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Reasoning and Problem Solving – Fraction of an Amount – Teaching Information



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Reasoning and Problem Solving – Fraction of an Amount – Year 5 Developing



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Reasoning and Problem Solving – Fraction of an Amount – Year 5 Expected



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Reasoning and Problem Solving – Fraction of an Amount – Year 5 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Fraction of an Amount</u>

Developing

1a. $\frac{1}{4}$ of 16 is 4 2a. B is the odd one out because the answer is 8. A and C = 10 3a. Harry takes 3 and Alina takes 6. There are 9 pencils left.

Expected

4a. 3/4 of 12 is 9
5a. A is the odd one out because the answer is 1.6kg (1,600g). B and C = 1.2kg (1,200g)
6a. Alex buys 10 and Suzie buys 20. There are 5 brownies left.

Greater Depth

7a. $\frac{13}{5}$ of 25 is 65 8a. C is the odd one out because the answer is 7.2km (7,200m). A and B = 4.2km (4,200m). 9a. Jason needs $\frac{4}{3}$ of a pack of pencils. Caitlin needs $\frac{5}{3}$ of a pack of pencils.

 $\frac{9}{3}$ = 3 so they need to buy 3 whole packs of pencils.

Reasoning and Problem Solving Fraction of an Amount

$\frac{\text{Developing}}{1\text{ b.} \frac{1}{3} \text{ of } 12 \text{ is } 4}$

2b. A is the odd one out because the answer is 6. B and C = 5 3b. Josh eats 6 and Sarah eats 3. There are 15 cupcakes left.

Expected

4b. 3/5 of 20 is 12
5b. B is the odd one out because the answer is 0.18L (180ml). A and C = 0.12L (120ml)
6b. Ivan plants 15 and Tanya plants 25. There are no seeds left.

Greater Depth

7b. $\frac{12}{4}$ of 28 is 84 8b. A is the odd one out because the answer is 7.2m (720cm). B and C = 7m (700cm) 9b. Oscar wants $\frac{7}{5}$ of a tube of sweets. Amber wants $\frac{11}{5}$ of a tube of sweets.

 $\frac{18}{5} = 3\frac{3}{5}$ so they need to buy 4 whole tubes of sweets.



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