

Reasoning and Problem Solving – Multiply Mixed Numbers by Integers – Year 5 Developing



Reasoning and Problem Solving – Multiply Mixed Numbers by Integers – Year 5 Expected



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Reasoning and Problem Solving – Multiply Mixed Numbers by Integers – Year 5 Greater Depth

Developing

1a. <mark>4</mark>

2a. B is the odd one out because A and C both equal $12\frac{8}{13}$, whereas B equals $12\frac{9}{13}$. 3a. Danny is not correct because he has multiplied the numerator and denominator by 2. The correct answer is $6\frac{4}{5}$.

Expected

4a. <mark>3</mark>

5a. A is the odd one out because B and C both equal $13\frac{3}{5}$, whereas A equals $13\frac{1}{5}$. 6a. Marco is not correct because he has not added on the 2 wholes when converting the improper fraction. The correct answer is $14\frac{2}{5}$.

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7a. <mark>2</mark>

8a. C is the odd one out because A and B both equal $17\frac{1}{3}$, whereas C equals $17\frac{1}{5}$. 9a. Alfie is not correct because he has multiplied the denominator by the integer. The correct answer is $16\frac{4}{5}$.

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1b. <mark>3</mark>

2b. A is the odd one out because B and C both equal $18\frac{6}{11}$, whereas A equals $18\frac{9}{11}$. 3b. Sharla is not correct because she has only multiplied the whole numbers. The correct answer is $15\frac{9}{11}$.

Expected

4b. <mark>2</mark>

5b. C is the odd one out because A and B both equal $17\frac{5}{7}$, whereas C equals $18\frac{2}{7}$. 6b. Lila is correct because 2 x 5 = 10 and $\frac{2}{3}$ x 5 = 3 $\frac{1}{3}$ so altogether it equals $13\frac{1}{3}$.

<u>Greater Depth</u>

7b. <mark>5</mark>

8b. B is the odd one out because A and C both equal $13\frac{1}{2}$, whereas B equals $14\frac{1}{4}$. 9b. Alina is correct however she has not simplified her answer. The simplified answer is $18\frac{1}{3}$.

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