Reasoning and Problem Solving
Multiply Decimals by Integers

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Developing

1a. 5.3 x 3 is the odd one out because this equals 15.9. The other calculations equal 13.6.

2a. 4.1 x 5 = 20.5. The cards 5.2, 21.5 and 4 are not needed.

3a. Mia has added the numbers instead of multiplying them. The correct answer is 28.8.

Developing

1b. 9.1 x 2 is the odd one out because this equals 18.2. The other calculations equal 17.6.

2b. 7.3 x 3 = 21.9. The cards 6.3, 24.9 and 4 are not needed.

3b. Alfie has not multiplied the tenths by 5. He has worked out 3 x 5 = 15 then added the decimal place. The correct answer is 16.5.

Expected

4a. 4.88 x 6 is the odd one out because this equals 29.28. The other calculations equal 25.44.

5a. 7.31 x 5 = 36.55. The cards 7.29, 6, 8.28 35.65 and 8 are not needed.

6a. Fay has not multiplied the tenths and hundredths by 6. She has worked out 5 x 6 = 30 then added the decimal places. The correct answer is 32.82.

Expected

4b. 3.93 x 7 is the odd one out because this equal 27.51. The other calculations equal 22.24.

5b. 8.43 x 6 = 50.58. The cards 32.21, 5.85, 8, 5 and 46.71 are not needed.

6b. Seth has written the tenths and hundredths in the incorrect order. The correct answer is 48.37

Greater Depth

7a. 6.043 x 8 is the odd one out because this equals 48.344. The other calculations equal 24.174.

8a. 7.607 x 9 = 68.463. The cards 53.468, 7.706, 8, 6.706 and 69.534 are not needed.

9a. Bella has 0 tenths in her answer. She has forgotten to carry the 6 tenths over. The correct answer is 35.679.

Greater Depth

7b. 5.031 x 7 is the odd one out because this equals 35.217. The other calculations equal 38.008.

8b. 6.084 x 9 = 54.756. The cards 57.762, 7, 6.804, 47.268 and 6.408 are not needed.

9b. Jason has not included the 0 tenths in his answer. The correct answer is 32.016.