

Reasoning and Problem Solving Multiply Decimals by Integers

Developing

- 1a. 5.3×3 is the odd one out because this equals 15.9. The other calculations equal 13.6.
- 2a. $4.1 \times 5 = 20.5$. 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.

Expected

- 4a. 4.88×6 is the odd one out because this equals 29.28. The other calculations equal 25.44.
- 5a. $7.31 \times 5 = 36.55$. 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 $5 \times 6 = 30$ then added the decimal places. The correct answer is 32.82.

Greater Depth

- 7a. 6.043×8 is the odd one out because this equals 48.344. The other calculations equal 24.174.
- 8a. $7.607 \times 9 = 68.463$. 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.

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Developing

- 1b. 9.1×2 is the odd one out because this equals 18.2. The other calculations equal 17.6.
- 2b. $7.3 \times 3 = 21.9$. The cards 6.3, 24.9 and 4 are not needed.
- 3b. Alfie has not multiplied the tenths by 5. He has worked out $3 \times 5 = 15$ then added the decimal place. The correct answer is 16.5.

Expected

- 4b. 3.93×7 is the odd one out because this equals 27.51. The other calculations equal 22.24.
- 5b. $8.43 \times 6 = 50.58$. 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

- 7b. 5.031×7 is the odd one out because this equals 35.217. The other calculations equal 38.008.
- 8b. $6.084 \times 9 = 54.756$. 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.