Multiply Decimals by Integers

1a. Circle the odd one out.

5.3 x 3

6.8 x 2

3.4 x 4

Explain your reasoning.

D

R

Multiply Decimals by Integers

1b. Circle the odd one out.

4.4 x 4

8.8 x 2

9.1 x 2

Explain your reasoning.

D

R

2a. Select and arrange the cards to create a multiplication calculation.

5.2	4.1	20.5
5	21.5	4

☐ x ☐ = ☐

Which cards are not needed?

D

PS

2b. Select and arrange the cards to create a multiplication calculation.

6.3	7.3	21.9
3	24.9	4

☐ x ☐ = ☐

Which cards are not needed?

D

PS

3a. Mr Chen shares the calculation below with Class 6:

7.2 x 4 =

Mia says,

The product is 11.2

What mistake has Mia made?

What is the correct answer?

D

R

3b. Miss Jones shares the calculation below with Class 6:

3.3 x 5 =

Alfie says,

The product is 15.3

What mistake has Alfie made?

What is the correct answer?

D

R

Multiply Decimals by Integers

4a. Circle the odd one out.

6.36 x 4

4.88 x 6

3.18 x 8

Explain your reasoning.

E R

Multiply Decimals by Integers

4b. Circle the odd one out.

2.78 x 8

3.93 x 7

5.56 x 4

Explain your reasoning.

E R

5a. Select and arrange the cards to create a multiplication calculation.

7.29	6	8.28	5
35.65	7.31	8	36.55

☐ x ☐ = ☐

Which cards are not needed?

E PS

5b. Select and arrange the cards to create a multiplication calculation.

32.21	5.85	6	8
8.43	5	46.71	50.58

☐ x ☐ = ☐

Which cards are not needed?

E PS

6a. Mr Smith shares the calculation below with Class 6:

5.47 x 6 =

Fay says,

The product is 30.47

What mistake has Fay made?

What is the correct answer?

E R

6b. Mrs Patel shares the calculation below with Class 6:

6.91 x 7 =

Seth says,

The product is 48.73

What mistake has Seth made?

What is the correct answer?

E R

Multiply Decimals by Integers

7a. Circle the odd one out.

8.058 x 3

6.043 x 8

4.029 x 6

Explain your reasoning.

GD

R

Multiply Decimals by Integers

7b. Circle the odd one out.

5.031 x 7

9.502 x 4

4.751 x 8

Explain your reasoning.

GD

R

8a. Select and arrange the cards to create a multiplication calculation.

53.468	7.706	8	7.607
68.463	9	6.706	69.534

☐ x ☐ = ☐

Which cards are not needed?

GD

PS

8b. Select and arrange the cards to create a multiplication calculation.

57.762	6.084	7	6.804
54.756	47.268	6.408	9

☐ x ☐ = ☐

Which cards are not needed?

GD

PS

9a. Mr Hill shares the calculation below with Class 6:

5.097 x 7 =

Bella says,

The product is 35.079

What mistake has Bella made?

What is the correct answer?

GD

R

9b. Mrs Davies shares the calculation below with Class 6:

4.002 x 8 =

Jason says,

The product is 32.16

What mistake has Jason made?

What is the correct answer?

GD

R

Reasoning and Problem Solving
Multiply Decimals by Integers

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.

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.

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.

Reasoning and Problem Solving
Multiply Decimals by Integers

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

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

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.