# Multiply Decimals by Integers

## Multiply Decimals by Integers

**1a. Circle the odd one out.**

$$5.3 \times 3$$

$$6.8 \times 2$$

$$3.4 \times 4$$

Explain your reasoning.

⭐D

R

**1b. Circle the odd one out.**

$$4.4 \times 4$$

$$8.8 \times 2$$

$$9.1 \times 2$$

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:**

$$7.2 \times 4 =$$

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:**

$$3.3 \times 5 =$$

Alfie says,

> The product is 15.3

What mistake has Alfie made?

What is the correct answer?

⭐D

R

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**Reasoning and Problem Solving – Multiply Decimals by Integers – Year 6 Developing**

**4a.** Circle the odd one out.

$$6.36 \times 4$$

$$4.88 \times 6$$

$$3.18 \times 8$$

**Explain your reasoning.**

⭐ E

R

**4b.** Circle the odd one out.

$$2.78 \times 8$$

$$3.93 \times 7$$

$$5.56 \times 4$$

**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:

$$5.47 \times 6 =$$

**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:

$$6.91 \times 7 =$$

**Seth says,**

> The product is 48.73

**What mistake has Seth made?**

**What is the correct answer?**

⭐ E

R

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**Reasoning and Problem Solving – Multiply Decimals by Integers – Year 6 Expected**

**7a. Circle the odd one out.**

## 8.058 x 3

## 6.043 x 8

## 4.029 x 6

**Explain your reasoning.**

⭐ GD

R

**7b. Circle the odd one out.**

## 5.031 x 7

## 9.502 x 4

## 4.751 x 8

**Explain your reasoning.**

⭐ GD

R

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**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

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**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

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**Reasoning and Problem Solving – Multiply Decimals by Integers – Year 6 Greater Depth**