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Sample

Exercise 1

- Round to 1 significant figure:
 - 7273
 - 2689
 - 12,944
- Round question 1 to 2 significant figures.
- Solve the following equations:
 - $4a = 16$
 - $12a = 60$
 - $a + 19 = 31$
 - $a - 15 = 46$

4. Simplify the following expressions:

- $s + s + s + s$
- $r + r + r + 2r$
- $u - u + 3u - 2u$

Exercise 2

- Round to 1 significant figure:
 - 8473
 - 189
 - 15,244
- Round question 1 to 2 significant figures.
- Solve the following equations:
 - $6a = 18$
 - $10a = 50$
 - $a + 15 = 65$
 - $a - 9 = 74$

4. Simplify the following expressions:

- $s + s + s + s + s + s + s$
- $r - r - 2r + 6r$
- $u - u - 2u$

Exercise 3

- Round to 1 significant figure:
 - 174
 - 4738
 - 10,944
- Round question 1 to 2 significant figures.
- Solve the following equations:
 - $7a = 35$
 - $11a = 88$
 - $a + 26 = 31$
 - $a - 45 = 86$

4. Simplify the following expressions:

- $s - s + s - s + s + s$
- $r + r + r + r$
- $u - 2u + 3u - 5u$

Exercise 4

- Round to 1 significant figure:
 - 973
 - 12.56
 - 99,111
- Round question 1 to 2 significant figures.
- Solve the following equations:
 - $12a = 144$
 - $11a = 121$
 - $a + 36 = 154$
 - $a - 37 = 85$

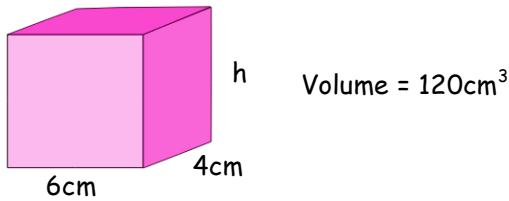
4. Simplify the following expressions:

- $s + s + s + s + s - s \times 3$
- $r + r + r + 2r + 4r - 11r$
- $4u + u + 6u - 5u - 8u$

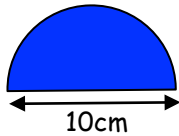
CfE Outcomes	3-01a, 2-15a
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Exercise 1

1. Solve $8t - 3 = 3t + 17$
2. For the cuboid below, find the unknown height:



3. Calculate the perimeter of this shape:



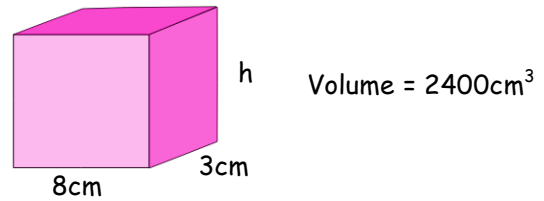
4. Calculate the area of the shape above.

5. Solve $3\frac{1}{3} + 4\frac{-}{2}$

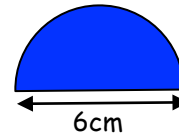
6. Multiply and collect $2(m + 1) - 3(m - 2)$

Exercise 2

1. Solve $9t - 2 = 2t + 40$
2. For the cuboid below, find the unknown height:



3. Calculate the perimeter of this shape:



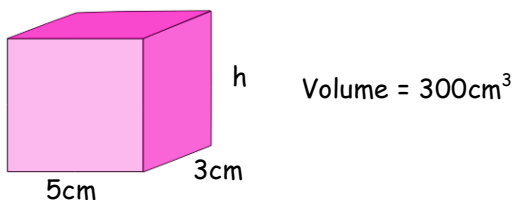
4. Calculate the area of the shape above.

5. Solve $\frac{1}{3} - \frac{1}{3}$

6. Multiply and collect $5(4m + 2) - 6(m - 5)$

Exercise 3

1. Solve $10t - 5 = 2t + 67$
2. For the cuboid below, find the unknown height:



3. Calculate the perimeter of this quarter circle:



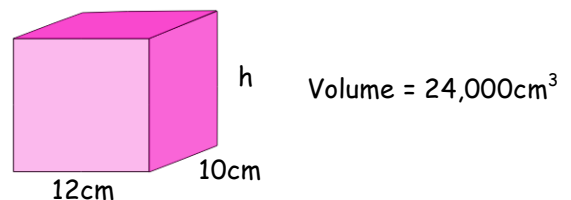
4. Calculate the area of the shape above.

5. Solve $4\frac{2}{5} + 6\frac{1}{2}$

6. Multiply and collect $7(m + 2) - 8(3m - 1)$

Exercise 4

1. Solve $12t - 20 = 2t + 90$
2. For the cuboid below, find the unknown height:



3. Calculate the perimeter of this shape:



4. Calculate the area of the shape above.

5. Solve $6\frac{1}{8} + 5\frac{3}{4}$

6. Multiply and collect $8(5m + 10) - 5(m - 6)$

CfE Outcomes

3-07b, 3-11a, 3-14a, 3-15a

Exercise 1

Simplify these expressions by collecting like terms:

1. $4a + 6b + 12a - 5b$
2. $2a + 42b + 13a + 30b$
3. $8b - 11a - 5b - 6a$
4. $6 + 7a - 4b + 2 - 2a + 11b$
5. $2a + a - 3b - 3b + 6a - 4b$
6. $5a + 3a^2 + a + 10a^2$
7. $5a^2 + b^2 + a^2 + 7b^2$
8. $7 + a + 5 - 6a + 3a^2$
9. $-3a - b + 4 + 2a - 11 + 5b$
10. $5a - 22b - 10a + 8$

Exercise 2

Simplify these expressions by collecting like terms:

1. $11a + 3b - 4a + b$
2. $50a + 30b + 15a + 60b - 50$
3. $15b - 4a + 8b - 7a$
4. $11 + 2a + 7b + 1 - 4a + 8b$
5. $3a - 5a + 7b - 4b + a - 3b$
6. $a + 8a^2 - 12a - 6a^2$
7. $4a^2 - b^2 - 3a^2 + b^2$
8. $7 + 15a - 3a^2 + 1 - 12a + 15a^2$
9. $-2b - 5b + 11a - 7b - 3$
10. $5a - b - 15a + 23 - 3a$

Exercise 3

Simplify these expressions by collecting like terms:

1. $3a + 4b + 10a + 2b$
2. $34a + 28b + 3a + 15b - a$
3. $13b - 2a - 12b + 12a$
4. $3 + 2a + 15 - 7a + 4b$
5. $5a + 10a - 8b - 3b - 4a - b$
6. $a + 6a^2 + 2a - 24a^2$
7. $7a^2 + 2b^2 - 9a^2 + 17b^2$
8. $6 - 4a - 5a^2 + 3 - 19a + 16a^2$
9. $-5b - 4a - 8b - 10 + 24a + 3b - 15$
10. $60a - 35b - 20a + 75 + 25b + 50a - 20$

Exercise 4

Simplify these expressions by collecting like terms:

1. $8a + 9b + a - 4b + 5$
2. $13a + 7b - 8a + 2b$
3. $3b - 42a + 16b - 20a - 5$
4. $10 + 2a - 15b + 7 - 6a + 24b$
5. $5a + 12a - 7b - 2 + 3a + 14b$
6. $9a + 11a^2 + 5a - 10a^2$
7. $40a^2 + 50b^2 - 30a^2 - 60b^2$
8. $12 + 7a + 12a^2 - 8 - 30a + 10a^2$
9. $-7b - 3a - 7b - 34 + 62a + 2b - 18$
10. $35a - 5b - 70a + 50 + 10b + 17a - 70$

CfE Outcomes	3-14a
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