

GRADE 3 • WORKBOOK

Grade 3 Math: Fractions, Area & Measurement

Fractions, perimeter, area, time and graphs.



FREE
NO SIGN-UP



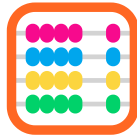
100% FREE PDF

26 pages • syllabus • answer key included



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Grade 3 Math: Fractions, Area & Measurement



Introduces fractions on number lines and in sets, then area and perimeter, measurement and elapsed time.

How to use this workbook

Work through the chapters in order, or jump to the skill your child needs most.
Each skill has three different sheets (A, B and C) so you can practise, review and test.
Do one or two sheets a day. Short, regular practice works better than long sessions.
Check answers using the answer key at the back of the book, then talk about any mistakes.
Print the pages you need on A4 or Letter paper; scale to fit if your printer asks.

What your child will learn

Naming Fractions	Perimeter of Rectangles
Fractions of a Set	Area of Rectangles
Fractions on a Number Line	Converting Metric Length
Area by Counting Squares	Converting Metric Mass and Capacity

This workbook is free to print for home and classroom use. It may not be sold or republished. More free books and worksheets: printableworksheetsforkids.pages.dev

Syllabus: what is inside

Welcome and how to use this book**p. 1**

How the workbook works and what your child will learn

1 Fractions**p. 3–11**

Naming Fractions · Fractions of a Set · Fractions on a Number Line

2 Area and perimeter**p. 12–20**

Area by Counting Squares · Perimeter of Rectangles · Area of Rectangles

3 Time and measurement**p. 21–26**

Converting Metric Length · Converting Metric Mass and Capacity

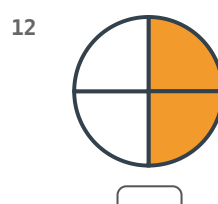
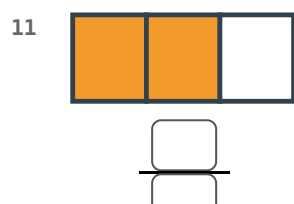
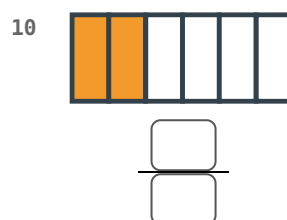
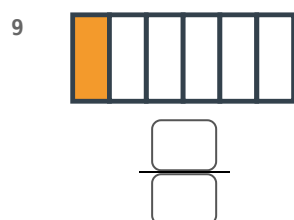
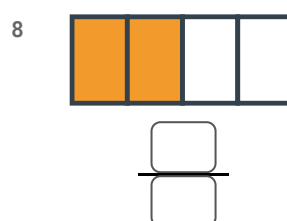
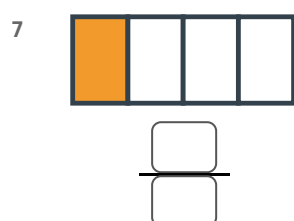
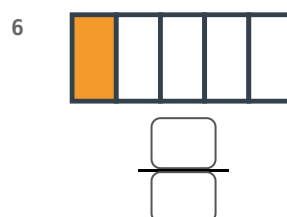
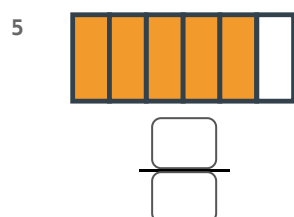
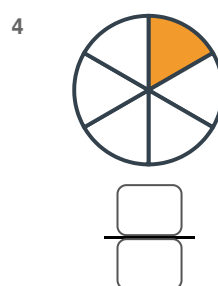
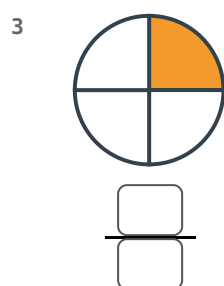
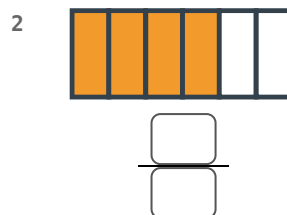
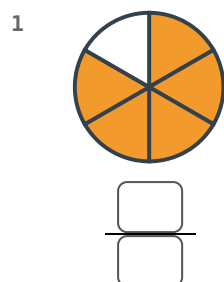
Answer key**p. 27**

Answers for every sheet in the book

 Naming Fractions

Name: _____ Date: _____ Score: _____

Write the fraction of each shape that is shaded: the number of shaded parts on top, the total number of equal parts on the bottom.





Naming Fractions

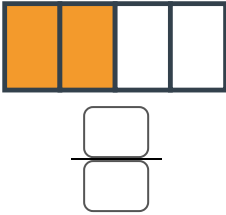
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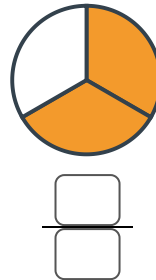
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Write the fraction of each shape that is shaded: the number of shaded parts on top, the total number of equal parts on the bottom.

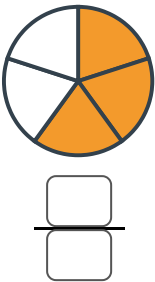
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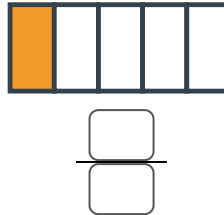
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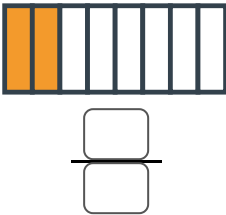
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4



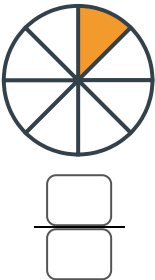
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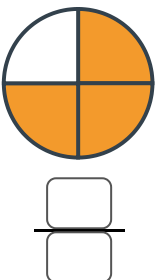
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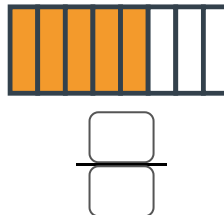
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9



10





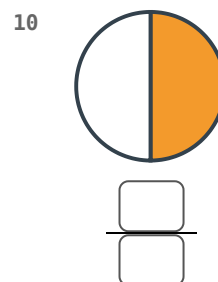
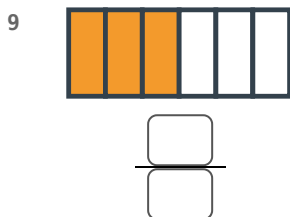
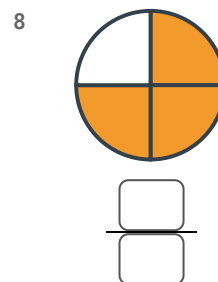
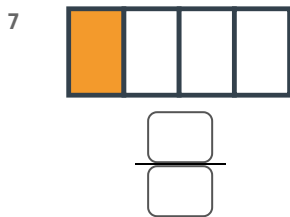
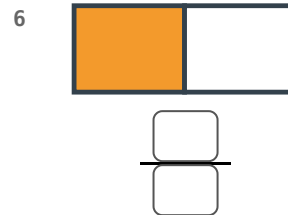
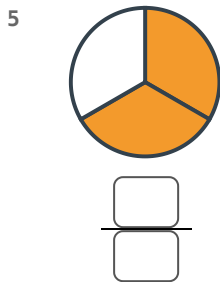
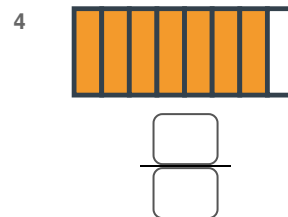
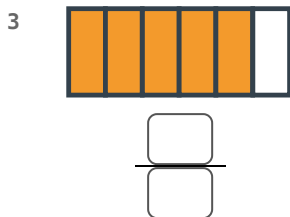
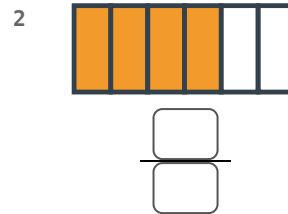
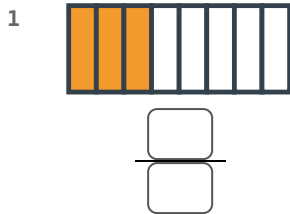
Naming Fractions

Name: _____

Date: _____

Score: _____

Write the fraction of each shape that is shaded: the number of shaded parts on top, the total number of equal parts on the bottom.



Fractions of a Set

Name: _____

Date: _____

Score: _____

Write the fraction of the pictures in each row that are bright (not faded).

1



of the pictures are bright

2



of the pictures are bright

3



of the pictures are bright

4



of the pictures are bright

5



of the pictures are bright

6



of the pictures are bright

Fractions of a Set

Name: _____

Date: _____

Score: _____

Write the fraction of the pictures in each row that are bright (not faded).

1



of the pictures are bright

2



of the pictures are bright

3



of the pictures are bright

4



of the pictures are bright

5



of the pictures are bright

6



of the pictures are bright

 Fractions of a Set

Name: _____

Date: _____

Score: _____

Write the fraction of the pictures in each row that are bright (not faded).

1



of the pictures are bright

2



of the pictures are bright

3



of the pictures are bright

4



of the pictures are bright

5



of the pictures are bright

6



of the pictures are bright



Fractions on a Number Line

Name: _____

Date: _____

Score: _____

Each number line is split into equal parts between 0 and 1. Write the fraction shown by the red point.

1



The point is at

2



The point is at

3



The point is at

4



The point is at

5



The point is at

6



The point is at



Fractions on a Number Line

Name: _____

Date: _____

Score: _____

Each number line is split into equal parts between 0 and 1. Write the fraction shown by the red point.

1



The point is at

2



The point is at

3



The point is at

4



The point is at

5



The point is at

6



The point is at



Fractions on a Number Line

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The point is at

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The point is at

3



The point is at

4



The point is at

5



The point is at

6



The point is at



Area by Counting Squares

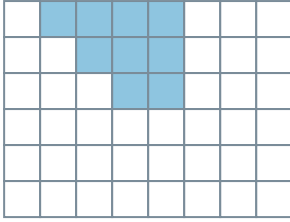
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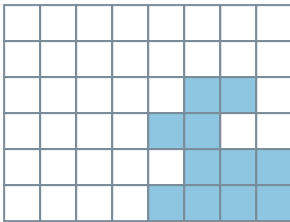
Score: _____

Each small square is 1 square unit. Count the blue squares to find each shape's area.

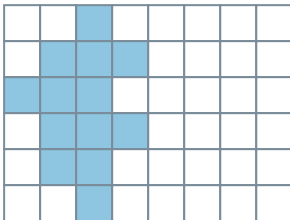
1

Area = square units

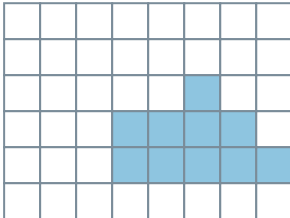
2

Area = square units

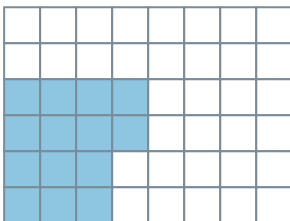
3

Area = square units

4

Area = square units

5

Area = square units



Area by Counting Squares

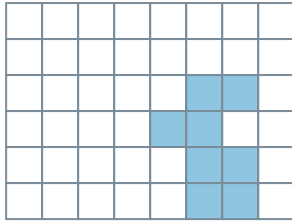
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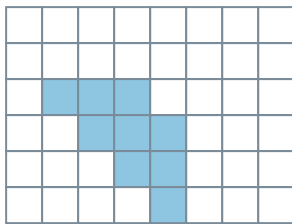
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1



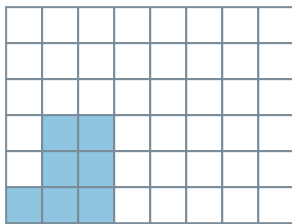
Area = square units

2



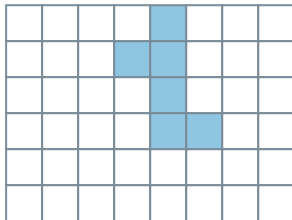
Area = square units

3



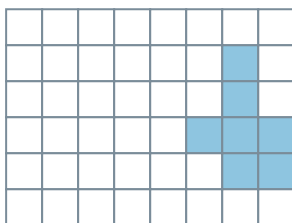
Area = square units

4



Area = square units

5



Area = square units



Area by Counting Squares

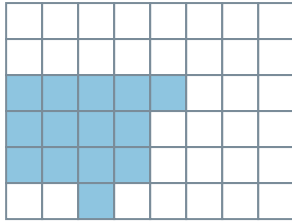
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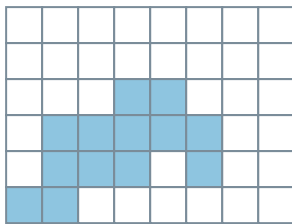
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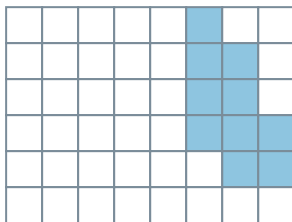
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Area = square units

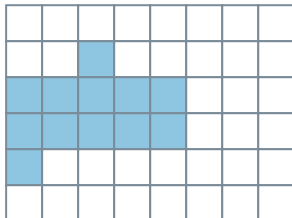
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Area = square units

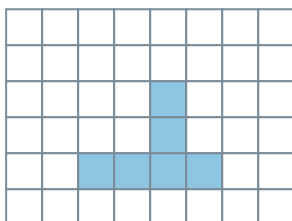
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Area = square units

4

Area = square units

5

Area = square units



Perimeter of Rectangles

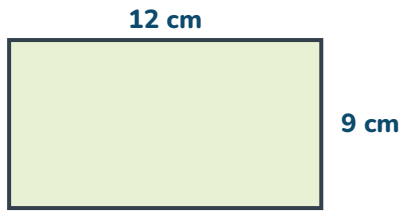
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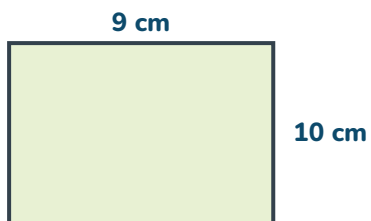
Score: _____

The perimeter is the distance all the way around a shape. Add up all four sides.

1

Perimeter = cm

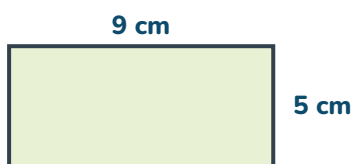
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Perimeter = cm

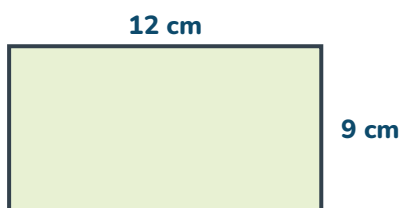
3

Perimeter = cm

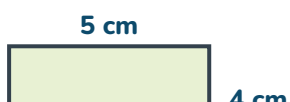
4

Perimeter = cm

5

Perimeter = cm

6





Perimeter of Rectangles

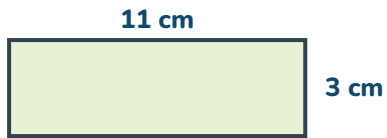
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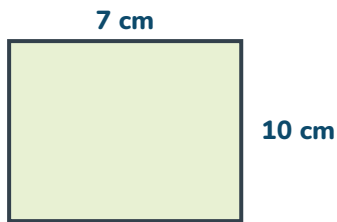
Score: _____

The perimeter is the distance all the way around a shape. Add up all four sides.

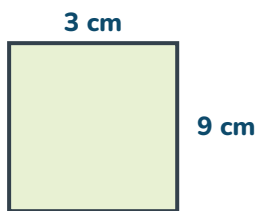
1

Perimeter = cm

2

Perimeter = cm

3

Perimeter = cm

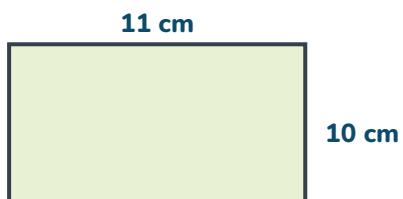
4

Perimeter = cm

5

Perimeter = cm

6





Perimeter of Rectangles

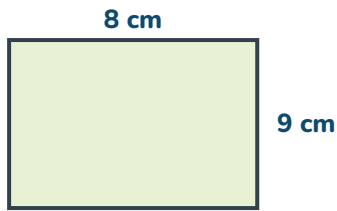
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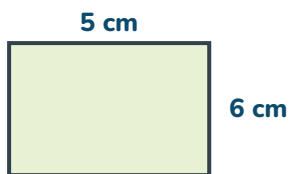
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1



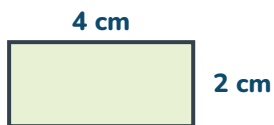
Perimeter = cm

2



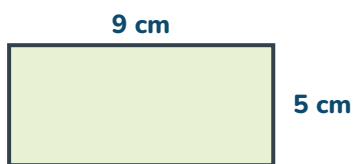
Perimeter = cm

3



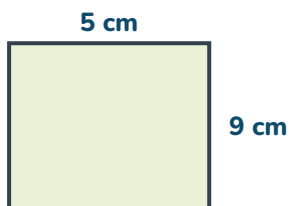
Perimeter = cm

4



Perimeter = cm

5



Perimeter = cm

6





Area of Rectangles

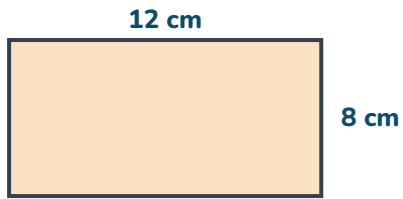
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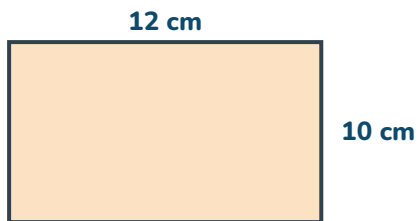
Area is the amount of flat space inside a shape. Multiply length $\times$ width.

1



$$\text{Area} = \boxed{} \text{ cm}^2$$

2



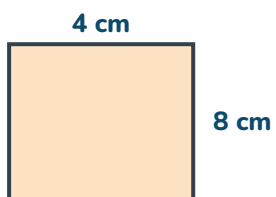
$$\text{Area} = \boxed{} \text{ cm}^2$$

3



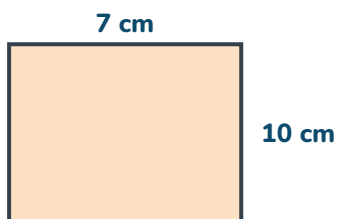
$$\text{Area} = \boxed{} \text{ cm}^2$$

4



$$\text{Area} = \boxed{} \text{ cm}^2$$

5



$$\text{Area} = \boxed{} \text{ cm}^2$$

6

7 cm



Area of Rectangles

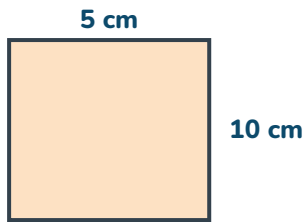
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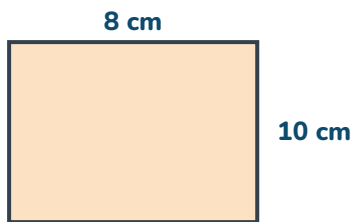
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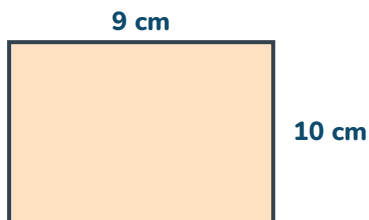
$$\text{Area} = \boxed{} \text{ cm}^2$$

2



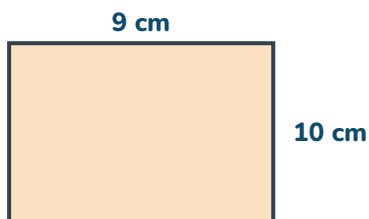
$$\text{Area} = \boxed{} \text{ cm}^2$$

3



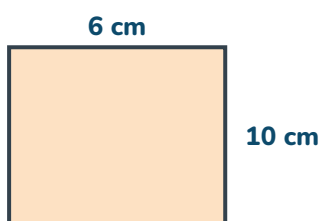
$$\text{Area} = \boxed{} \text{ cm}^2$$

4



$$\text{Area} = \boxed{} \text{ cm}^2$$

5



$$\text{Area} = \boxed{} \text{ cm}^2$$



Area of Rectangles

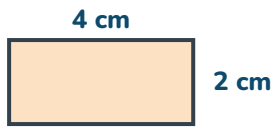
Name: _____

Date: _____

Score: _____

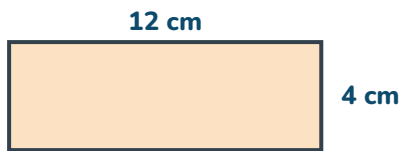
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1



$$\text{Area} = \boxed{} \text{ cm}^2$$

2



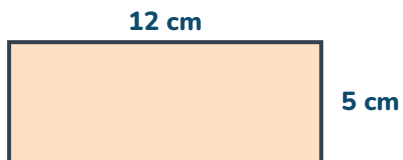
$$\text{Area} = \boxed{} \text{ cm}^2$$

3



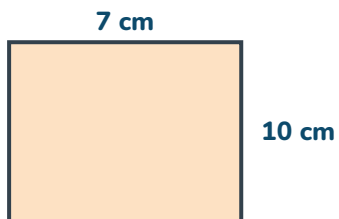
$$\text{Area} = \boxed{} \text{ cm}^2$$

4



$$\text{Area} = \boxed{} \text{ cm}^2$$

5



$$\text{Area} = \boxed{} \text{ cm}^2$$

6



$$\text{Area} = \boxed{} \text{ cm}^2$$



Converting Metric Length

Name: _____

Date: _____

Score: _____

Convert between kilometres, metres, centimetres and millimetres.

1 **100 mm =** **cm**

2 **30 mm =** **cm**

3 **3000 m =** **km**

4 **12 m =** **cm**

5 **1100 cm =** **m**

6 **200 cm =** **m**

7 **3 km =** **m**

8 **110 mm =** **cm**

9 **7 m =** **cm**

10 **6 km =** **m**

11 **2 km =** **m**

12 **1 km =** **m**

13 **9 km =** **m**

14 **3 m =** **cm**

15 **11 km =** **m**

16 **4 km =** **m**



Converting Metric Length

Name: _____

Date: _____

Score: _____

Convert between kilometres, metres, centimetres and millimetres.

1 **4 cm** = mm

2 **9 m** = cm

3 **20 mm** = cm

4 **7 km** = m

5 **12 cm** = mm

6 **1000 m** = km

7 **900 cm** = m

8 **6 km** = m

9 **10 mm** = cm

10 **12000 m** = km

11 **7 cm** = mm

12 **1000 cm** = m

13 **100 cm** = m

14 **1100 cm** = m

15 **6000 m** = km

16 **3 m** = cm



Converting Metric Length

Name: _____

Date: _____

Score: _____

Convert between kilometres, metres, centimetres and millimetres.

1 **6 m** = cm

2 **6 km** = m

3 **9 cm** = mm

4 **80 mm** = cm

5 **30 mm** = cm

6 **1 m** = cm

7 **7 km** = m

8 **10 cm** = mm

9 **1 cm** = mm

10 **5 m** = cm

11 **400 cm** = m

12 **700 cm** = m

13 **9000 m** = km

14 **100 mm** = cm

15 **11 km** = m

16 **12 cm** = mm



Converting Metric Mass and Capacity

Name: _____

Date: _____

Score: _____

Convert between kilograms and grams, and between litres and millilitres.

1 **12 L** = mL

2 **5 L** = mL

3 **4000 mL** = L

4 **4000 g** = kg

5 **11000 mL** = L

6 **10000 g** = kg

7 **10 L** = mL

8 **6000 g** = kg

9 **3000 g** = kg

10 **1000 mL** = L

11 **9000 mL** = L

12 **3 kg** = g

13 **1 L** = mL

14 **2 L** = mL

15 **8 kg** = g

16 **7000 mL** = L



Converting Metric Mass and Capacity

Name: _____

Date: _____

Score: _____

Convert between kilograms and grams, and between litres and millilitres.

1 **3000 g** = kg

2 **12000 mL** = L

3 **8 L** = mL

4 **11000 g** = kg

5 **11 kg** = g

6 **7000 mL** = L

7 **10 kg** = g

8 **8000 g** = kg

9 **12000 g** = kg

10 **9000 mL** = L

11 **2000 g** = kg

12 **8000 mL** = L

13 **4 kg** = g

14 **6 kg** = g

15 **12 L** = mL

16 **1000 g** = kg



Converting Metric Mass and Capacity

Name: _____

Date: _____

Score: _____

Convert between kilograms and grams, and between litres and millilitres.

1 **2 L** = mL

2 **8000 g** = kg

3 **8 L** = mL

4 **1000 mL** = L

5 **9 L** = mL

6 **4000 mL** = L

7 **1000 g** = kg

8 **9000 mL** = L

9 **5000 mL** = L

10 **10000 g** = kg

11 **11 L** = mL

12 **10000 mL** = L

13 **3000 mL** = L

14 **2000 mL** = L

15 **1 kg** = g

16 **9 kg** = g

Ch. 1 · Naming Fractions – Sheet A

- | | | | |
|------------------|------------------|------------------|-------------------|
| 1. $\frac{5}{6}$ | 4. $\frac{1}{6}$ | 7. $\frac{1}{4}$ | 10. $\frac{2}{6}$ |
| 2. $\frac{4}{6}$ | 5. $\frac{5}{6}$ | 8. $\frac{2}{4}$ | 11. $\frac{2}{3}$ |
| 3. $\frac{1}{4}$ | 6. $\frac{1}{5}$ | 9. $\frac{1}{6}$ | 12. $\frac{2}{4}$ |

Ch. 1 · Naming Fractions – Sheet B

- | | | | |
|------------------|------------------|------------------|-------------------|
| 1. $\frac{2}{4}$ | 4. $\frac{1}{5}$ | 7. $\frac{1}{8}$ | 10. $\frac{5}{8}$ |
| 2. $\frac{2}{3}$ | 5. $\frac{2}{8}$ | 8. $\frac{1}{2}$ | 11. $\frac{3}{4}$ |
| 3. $\frac{3}{5}$ | 6. $\frac{5}{6}$ | 9. $\frac{3}{4}$ | 12. $\frac{3}{6}$ |

Ch. 1 · Naming Fractions – Sheet C

- | | | | |
|------------------|------------------|------------------|-------------------|
| 1. $\frac{3}{8}$ | 4. $\frac{7}{8}$ | 7. $\frac{1}{4}$ | 10. $\frac{1}{2}$ |
| 2. $\frac{4}{6}$ | 5. $\frac{2}{3}$ | 8. $\frac{3}{4}$ | 11. $\frac{4}{5}$ |
| 3. $\frac{5}{6}$ | 6. $\frac{1}{2}$ | 9. $\frac{3}{6}$ | 12. $\frac{2}{4}$ |

Ch. 1 · Fractions of a Set – Sheet A

- | | | | |
|------------------|------------------|------------------|------------------|
| 1. $\frac{3}{5}$ | 3. $\frac{3}{5}$ | 5. $\frac{1}{3}$ | 7. $\frac{1}{2}$ |
| 2. $\frac{1}{3}$ | 4. $\frac{1}{3}$ | 6. $\frac{3}{4}$ | 8. $\frac{1}{2}$ |

Ch. 1 · Fractions of a Set – Sheet B

- | | | | |
|------------------|------------------|------------------|------------------|
| 1. $\frac{1}{2}$ | 3. $\frac{2}{3}$ | 5. $\frac{1}{3}$ | 7. $\frac{1}{2}$ |
| 2. $\frac{1}{2}$ | 4. $\frac{1}{2}$ | 6. $\frac{1}{4}$ | 8. $\frac{3}{4}$ |

Ch. 1 · Fractions of a Set – Sheet C

- | | | | |
|------------------|------------------|------------------|------------------|
| 1. $\frac{2}{3}$ | 3. $\frac{1}{3}$ | 5. $\frac{1}{2}$ | 7. $\frac{1}{2}$ |
| 2. $\frac{2}{3}$ | 4. $\frac{2}{3}$ | 6. $\frac{1}{2}$ | 8. $\frac{3}{5}$ |

Ch. 1 · Fractions on a Number Line – Sheet A

- | | | | |
|------------------|------------------|------------------|------------------|
| 1. $\frac{2}{3}$ | 3. $\frac{5}{6}$ | 5. $\frac{4}{6}$ | 7. $\frac{1}{3}$ |
| 2. $\frac{6}{8}$ | 4. $\frac{1}{3}$ | 6. $\frac{3}{5}$ | 8. $\frac{1}{5}$ |

Ch. 1 · Fractions on a Number Line – Sheet B

- | | | | |
|-------------------|-------------------|------------------|------------------|
| 1. $\frac{1}{2}$ | 3. $\frac{2}{5}$ | 5. $\frac{3}{6}$ | 7. $\frac{6}{8}$ |
| 2. $\frac{3}{10}$ | 4. $\frac{9}{10}$ | 6. $\frac{2}{6}$ | 8. $\frac{1}{3}$ |

Ch. 1 · Fractions on a Number Line – Sheet C

- | | | | |
|------------------|------------------|------------------|------------------|
| 1. $\frac{3}{6}$ | 3. $\frac{1}{2}$ | 5. $\frac{1}{3}$ | 7. $\frac{2}{6}$ |
| 2. $\frac{6}{8}$ | 4. $\frac{2}{5}$ | 6. $\frac{3}{5}$ | 8. $\frac{1}{2}$ |

Ch. 2 · Area by Counting Squares – Sheet A

- | | | |
|-------|-------|-------|
| 1. 9 | 3. 13 | 5. 14 |
| 2. 11 | 4. 10 | 6. 6 |

Ch. 2 · Area by Counting Squares – Sheet B

- | | | |
|------|------|-------|
| 1. 8 | 3. 7 | 5. 7 |
| 2. 9 | 4. 6 | 6. 10 |

Ch. 2 · Area by Counting Squares – Sheet C

- | | | |
|-------|-------|-------|
| 1. 14 | 3. 10 | 5. 6 |
| 2. 13 | 4. 12 | 6. 14 |

Ch. 2 · Perimeter of Rectangles – Sheet A

- | | | | |
|----------|----------|----------|----------|
| 1. 42 cm | 3. 14 cm | 5. 42 cm | 7. 24 cm |
| 2. 38 cm | 4. 28 cm | 6. 18 cm | 8. 22 cm |

Ch. 2 · Perimeter of Rectangles – Sheet B

- | | | | |
|----------|----------|----------|----------|
| 1. 28 cm | 3. 24 cm | 5. 22 cm | 7. 22 cm |
| 2. 34 cm | 4. 24 cm | 6. 42 cm | 8. 18 cm |

Ch. 2 · Perimeter of Rectangles – Sheet C

- | | | | |
|----------|----------|----------|----------|
| 1. 34 cm | 3. 12 cm | 5. 28 cm | 7. 24 cm |
| 2. 22 cm | 4. 28 cm | 6. 18 cm | 8. 42 cm |

Ch. 2 · Area of Rectangles – Sheet A

- | | | | |
|------------------------|-----------------------|-----------------------|------------------------|
| 1. 96 cm ² | 3. 24 cm ² | 5. 70 cm ² | 7. 27 cm ² |
| 2. 120 cm ² | 4. 32 cm ² | 6. 14 cm ² | 8. 110 cm ² |

Ch. 2 · Area of Rectangles – Sheet B

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. 50 cm ² | 3. 90 cm ² | 5. 60 cm ² | 7. 30 cm ² |
| 2. 80 cm ² | 4. 90 cm ² | 6. 12 cm ² | 8. 24 cm ² |

Ch. 2 · Area of Rectangles – Sheet C

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. 8 cm ² | 3. 20 cm ² | 5. 70 cm ² | 7. 56 cm ² |
| 2. 48 cm ² | 4. 60 cm ² | 6. 6 cm ² | 8. 36 cm ² |

Ch. 3 · Converting Metric Length – Sheet A

- | | | | |
|---------|---------|----------|-----------|
| 1. 10 | 5. 11 | 9. 700 | 13. 9000 |
| 2. 3 | 6. 2 | 10. 6000 | 14. 300 |
| 3. 3 | 7. 3000 | 11. 2000 | 15. 11000 |
| 4. 1200 | 8. 11 | 12. 1000 | 16. 4000 |

Ch. 3 · Converting Metric Length – Sheet B

- | | | | |
|---------|---------|--------|---------|
| 1. 40 | 5. 120 | 9. 1 | 13. 1 |
| 2. 900 | 6. 1 | 10. 12 | 14. 11 |
| 3. 2 | 7. 9 | 11. 70 | 15. 6 |
| 4. 7000 | 8. 6000 | 12. 10 | 16. 300 |

Ch. 3 · Converting Metric Length – Sheet C

- | | | | |
|---------|---------|---------|-----------|
| 1. 600 | 5. 3 | 9. 10 | 13. 9 |
| 2. 6000 | 6. 100 | 10. 500 | 14. 10 |
| 3. 90 | 7. 7000 | 11. 4 | 15. 11000 |
| 4. 8 | 8. 100 | 12. 7 | 16. 120 |

Ch. 3 · Converting Metric Mass and Capacity – Sheet A

1. 12000	5. 11	9. 3	13. 1000
2. 5000	6. 10	10. 1	14. 2000
3. 4	7. 10000	11. 9	15. 8000
4. 4	8. 6	12. 3000	16. 7

Ch. 3 · Converting Metric Mass and Capacity – Sheet B

1. 3	5. 11000	9. 12	13. 4000
2. 12	6. 7	10. 9	14. 6000
3. 8000	7. 10000	11. 2	15. 12000
4. 11	8. 8	12. 8	16. 1

Ch. 3 · Converting Metric Mass and Capacity – Sheet C

1. 2000	5. 9000	9. 5	13. 3
2. 8	6. 4	10. 10	14. 2
3. 8000	7. 1	11. 11000	15. 1000
4. 1	8. 9	12. 10	16. 9000