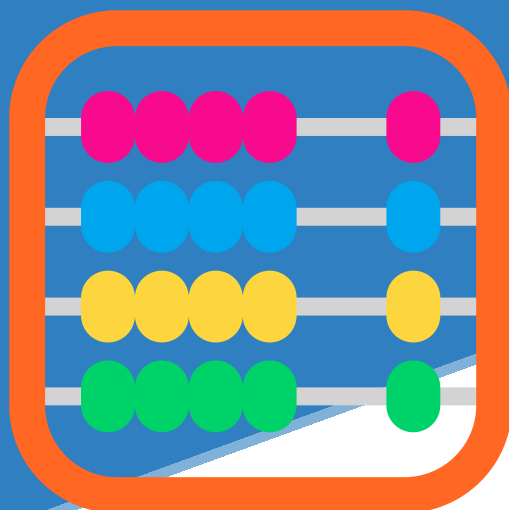


GRADE 4 • WORKBOOK

Grade 4 Math: Fractions & Decimals

Equivalent fractions, mixed numbers and decimals.



FREE
NO SIGN-UP



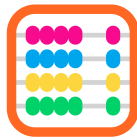
100% FREE PDF

32 pages • syllabus • answer key included



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Grade 4 Math: Fractions & Decimals



Equivalent fractions, adding fractions, mixed numbers and an introduction to decimals as another way to write fractions.

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

Adding Fractions (Same Denominator)	Adding Decimals
Improper Fractions and Mixed Numbers	Subtracting Decimals
Fractions of Whole Numbers	Types of Angles
Decimal Place Value	Bar Graph
Comparing Decimals	Number Patterns

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**

Adding Fractions (Same Denominator) · Improper Fractions and Mixed Numbers · Fractions of Whole Numbers

2 Decimals**p. 12–23**

Decimal Place Value · Comparing Decimals · Adding Decimals · Subtracting Decimals

3 Angles and data**p. 24–32**

Types of Angles · Bar Graph · Number Patterns

Answer key**p. 33**

Answers for every sheet in the book



Adding Fractions (Same Denominator)

Name: _____

Date: _____

Score: _____

Work out each answer. Write it in simplest form.

$$1 \quad \frac{1}{2} + \frac{3}{4} = \boxed{}$$

$$2 \quad \frac{1}{2} + \frac{1}{2} = \boxed{}$$

$$3 \quad \frac{3}{5} + \frac{4}{5} = \boxed{}$$

$$4 \quad \frac{3}{4} + \frac{3}{4} = \boxed{}$$

$$5 \quad \frac{3}{10} + \frac{1}{5} = \boxed{}$$

$$6 \quad \frac{2}{3} + \frac{1}{3} = \boxed{}$$

$$7 \quad \frac{4}{5} + \frac{2}{5} = \boxed{}$$

$$8 \quad \frac{2}{3} + \frac{2}{3} = \boxed{}$$

$$9 \quad \frac{1}{5} + \frac{3}{5} = \boxed{}$$

$$10 \quad \frac{3}{4} + \frac{1}{2} = \boxed{}$$

$$11 \quad \frac{1}{3} + \frac{2}{3} = \boxed{}$$

$$12 \quad \frac{1}{3} + \frac{1}{2} = \boxed{}$$



Adding Fractions (Same Denominator)

Name: _____

Date: _____

Score: _____

Work out each answer. Write it in simplest form.

1 $\frac{1}{6} + \frac{5}{6} = \square$

2 $\frac{2}{5} + \frac{1}{5} = \square$

3 $\frac{1}{4} + \frac{1}{4} = \square$

4 $\frac{3}{5} + \frac{4}{5} = \square$

5 $\frac{1}{2} + \frac{1}{10} = \square$

6 $\frac{1}{4} + \frac{3}{8} = \square$

7 $\frac{9}{10} + \frac{4}{5} = \square$

8 $\frac{5}{6} + \frac{1}{6} = \square$

9 $\frac{5}{8} + \frac{3}{4} = \square$

10 $\frac{1}{2} + \frac{1}{4} = \square$

11 $\frac{1}{2} + \frac{1}{2} = \square$

12 $\frac{1}{2} + \frac{2}{3} = \square$



Adding Fractions (Same Denominator)

Name: _____

Date: _____

Score: _____

Work out each answer. Write it in simplest form.

$$1 \quad \frac{1}{5} + \frac{2}{5} = \boxed{}$$

$$2 \quad \frac{1}{3} + \frac{2}{3} = \boxed{}$$

$$3 \quad \frac{2}{3} + \frac{5}{6} = \boxed{}$$

$$4 \quad \frac{1}{2} + \frac{1}{2} = \boxed{}$$

$$5 \quad \frac{1}{2} + \frac{1}{4} = \boxed{}$$

$$6 \quad \frac{9}{10} + \frac{4}{5} = \boxed{}$$

$$7 \quad \frac{2}{5} + \frac{1}{5} = \boxed{}$$

$$8 \quad \frac{1}{4} + \frac{1}{2} = \boxed{}$$

$$9 \quad \frac{2}{3} + \frac{1}{3} = \boxed{}$$

$$10 \quad \frac{1}{10} + \frac{9}{10} = \boxed{}$$

$$11 \quad \frac{1}{4} + \frac{3}{4} = \boxed{}$$

$$12 \quad \frac{1}{2} + \frac{4}{5} = \boxed{}$$



Improper Fractions and Mixed Numbers

Name: _____

Date: _____

Score: _____

Convert between improper fractions and mixed numbers.

$$1 \quad \frac{18}{7} = \square \frac{\square}{\square}$$

$$2 \quad 1 \frac{3}{6} = \frac{\square}{6}$$

$$3 \quad \frac{13}{3} = \square \frac{\square}{\square}$$

$$4 \quad 2 \frac{1}{6} = \frac{\square}{6}$$

$$5 \quad \frac{34}{5} = \square \frac{\square}{\square}$$

$$6 \quad 1 \frac{3}{5} = \frac{\square}{5}$$

$$7 \quad \frac{35}{9} = \square \frac{\square}{\square}$$

$$8 \quad 2 \frac{2}{3} = \frac{\square}{3}$$

$$9 \quad \frac{11}{3} = \square \frac{\square}{\square}$$

$$10 \quad 4 \frac{3}{4} = \frac{\square}{4}$$

$$11 \quad \frac{23}{7} = \square \frac{\square}{\square}$$

$$12 \quad 1 \frac{3}{7} = \frac{\square}{7}$$



Improper Fractions and Mixed Numbers

Name: _____

Date: _____

Score: _____

Convert between improper fractions and mixed numbers.

$$1 \quad \frac{21}{5} = \square \frac{\square}{\square}$$

$$2 \quad 5 \frac{5}{6} = \frac{\square}{6}$$

$$3 \quad \frac{55}{8} = \square \frac{\square}{\square}$$

$$4 \quad 4 \frac{2}{4} = \frac{\square}{4}$$

$$5 \quad \frac{17}{5} = \square \frac{\square}{\square}$$

$$6 \quad 4 \frac{8}{9} = \frac{\square}{9}$$

$$7 \quad \frac{19}{3} = \square \frac{\square}{\square}$$

$$8 \quad 5 \frac{3}{7} = \frac{\square}{7}$$

$$9 \quad \frac{10}{6} = \square \frac{\square}{\square}$$

$$10 \quad 5 \frac{1}{2} = \frac{\square}{2}$$

$$11 \quad \frac{25}{7} = \square \frac{\square}{\square}$$

$$12 \quad 3 \frac{1}{4} = \frac{\square}{4}$$



Improper Fractions and Mixed Numbers

Name: _____

Date: _____

Score: _____

Convert between improper fractions and mixed numbers.

$$1 \quad \frac{21}{9} = \square \frac{\square}{\square}$$

$$2 \quad 3 \frac{3}{9} = \frac{\square}{9}$$

$$3 \quad \frac{7}{3} = \square \frac{\square}{\square}$$

$$4 \quad 4 \frac{1}{5} = \frac{\square}{5}$$

$$5 \quad \frac{13}{2} = \square \frac{\square}{\square}$$

$$6 \quad 3 \frac{1}{5} = \frac{\square}{5}$$

$$7 \quad \frac{6}{5} = \square \frac{\square}{\square}$$

$$8 \quad 3 \frac{5}{6} = \frac{\square}{6}$$

$$9 \quad \frac{22}{6} = \square \frac{\square}{\square}$$

$$10 \quad 1 \frac{2}{8} = \frac{\square}{8}$$

$$11 \quad \frac{46}{7} = \square \frac{\square}{\square}$$

$$12 \quad 6 \frac{2}{5} = \frac{\square}{5}$$



Fractions of Whole Numbers

Name: _____

Date: _____

Score: _____

Find the fraction of the whole number. (Divide by the bottom number first, then multiply by the top.)

- ¹ Tom has 18 stickers. Tom gives $\frac{1}{3}$ of them to a friend. How many stickers does the friend get?

- ² Ana has 6 shells. Ana gives $\frac{1}{3}$ of them to a friend. How many shells does the friend get?

- ³ Priya has 24 shells. Priya gives $\frac{4}{8}$ of them to a friend. How many shells does the friend get?

- ⁴ Hana has 12 stamps. Hana gives $\frac{1}{6}$ of them to a friend. How many stamps does the friend get?

- ⁵ Ravi has 40 cookies. Ravi gives $\frac{7}{10}$ of them to a friend. How many cookies does the friend get?

- ⁶ Fatima has 32 apples. Fatima gives $\frac{1}{8}$ of them to a friend. How many apples does the friend get?

- ⁷ Sofia has 12 books. Sofia gives $\frac{1}{4}$ of them to a friend. How many books does the friend get?

- ⁸ Sam has 40 pencils. Sam gives $\frac{2}{10}$ of them to a friend. How many pencils does the friend get?



Fractions of Whole Numbers

Name: _____

Date: _____

Score: _____

Find the fraction of the whole number. (Divide by the bottom number first, then multiply by the top.)

- ¹ Leo has 12 cookies. Leo gives $\frac{1}{2}$ of them to a friend. How many cookies does the friend get?

- ² Sam has 20 cookies. Sam gives $\frac{1}{5}$ of them to a friend. How many cookies does the friend get?

- ³ Jack has 32 books. Jack gives $\frac{5}{8}$ of them to a friend. How many books does the friend get?

- ⁴ Ida has 40 beads. Ida gives $\frac{5}{8}$ of them to a friend. How many beads does the friend get?

- ⁵ Kwame has 4 shells. Kwame gives $\frac{1}{2}$ of them to a friend. How many shells does the friend get?

- ⁶ Arjun has 40 shells. Arjun gives $\frac{1}{10}$ of them to a friend. How many shells does the friend get?

- ⁷ Fatima has 8 cookies. Fatima gives $\frac{2}{4}$ of them to a friend. How many cookies does the friend get?

- ⁸ Zara has 12 stickers. Zara gives $\frac{2}{3}$ of them to a friend. How many stickers does the friend get?



Fractions of Whole Numbers

Name: _____

Date: _____

Score: _____

Find the fraction of the whole number. (Divide by the bottom number first, then multiply by the top.)

1

Fatima has 32 cookies. Fatima gives $\frac{1}{8}$ of them to a friend. How many cookies does the friend get?

2

Ravi has 16 books. Ravi gives $\frac{3}{4}$ of them to a friend. How many books does the friend get?

3

Sam has 48 coins. Sam gives $\frac{3}{8}$ of them to a friend. How many coins does the friend get?

4

Kwame has 25 apples. Kwame gives $\frac{1}{5}$ of them to a friend. How many apples does the friend get?

5

Arjun has 4 marbles. Arjun gives $\frac{1}{2}$ of them to a friend. How many marbles does the friend get?

6

Noah has 8 shells. Noah gives $\frac{3}{4}$ of them to a friend. How many shells does the friend get?

7

Diego has 12 stamps. Diego gives $\frac{1}{2}$ of them to a friend. How many stamps does the friend get?

8

Jack has 60 cookies. Jack gives $\frac{8}{10}$ of them to a friend. How many cookies does the friend get?



Decimal Place Value

Name: _____

Date: _____

Score: _____

Decimal places: tenths, hundredths and thousandths. Answer each question.

- ¹ In **2.5** , the digit **5** is in the place.
- ² In **1.4** , what is the value of the digit **4** ?
- ³ In **3.1** , the digit **1** is in the place.
- ⁴ In **0.59** , what is the value of the digit **5** ?
- ⁵ In **4.3** , the digit **3** is in the place.
- ⁶ In **2.55** , what is the value of the digit **5** ?
- ⁷ In **6.85** , the digit **8** is in the place.
- ⁸ In **5.53** , what is the value of the digit **5** ?
- ⁹ In **0.72** , the digit **7** is in the place.
- ¹⁰ In **9.84** , what is the value of the digit **8** ?



Decimal Place Value

Name: _____

Date: _____

Score: _____

Decimal places: tenths, hundredths and thousandths. Answer each question.

- ¹ In **1.61** , the digit **6** is in the place.
- ² In **4.49** , what is the value of the digit **4** ?
- ³ In **5.98** , the digit **9** is in the place.
- ⁴ In **3.9** , what is the value of the digit **9** ?
- ⁵ In **7.4** , the digit **4** is in the place.
- ⁶ In **7.2** , what is the value of the digit **2** ?
- ⁷ In **1.18** , the digit **1** is in the place.
- ⁸ In **1.6** , what is the value of the digit **6** ?
- ⁹ In **2.65** , the digit **6** is in the place.
- ¹⁰ In **1.38** , what is the value of the digit **3** ?



Decimal Place Value

Name: _____

Date: _____

Score: _____

Decimal places: tenths, hundredths and thousandths. Answer each question.

- ¹ In **4.5** , the digit **5** is in the place.
- ² In **5.8** , what is the value of the digit **8** ?
- ³ In **0.2** , the digit **2** is in the place.
- ⁴ In **5.3** , what is the value of the digit **3** ?
- ⁵ In **2.9** , the digit **9** is in the place.
- ⁶ In **8.53** , what is the value of the digit **5** ?
- ⁷ In **1.1** , the digit **1** is in the place.
- ⁸ In **0.99** , what is the value of the digit **9** ?
- ⁹ In **3.66** , the digit **6** is in the place.
- ¹⁰ In **8.83** , what is the value of the digit **3** ?



Comparing Decimals

Name: _____

Date: _____

Score: _____

Compare the decimals. Write $<$, $>$ or $=$ in each box. (Line up the decimal points and compare digit by digit.)

1 **4.28** **4.07**

2 **1.03** **0.93**

3 **0.21** **0.06**

4 **4.52** **4.21**

5 **2.13** **2.45**

6 **4.06** **4.32**

7 **3.90** **4.24**

8 **4.58** **4.58**

9 **3.76** **3.55**

10 **1.49** **1.50**

11 **1.39** **1.02**

12 **1.58** **1.87**

13 **4.70** **5.03**

14 **1.01** **0.73**

15 **3.60** **3.30**

16 **3.52** **3.52**

17 **3.63** **3.49**

18 **4.52** **4.15**

19 **2.46** **2.28**

20 **3.43** **3.61**



Comparing Decimals

Name: _____

Date: _____

Score: _____

Compare the decimals. Write $<$, $>$ or $=$ in each box. (Line up the decimal points and compare digit by digit.)

1 **4.71** **4.70**

2 **0.58** **0.23**

3 **4.56** **4.26**

4 **0.08** **0.39**

5 **4.59** **4.76**

6 **2.18** **1.96**

7 **4.64** **4.54**

8 **1.92** **1.92**

9 **1.46** **1.52**

10 **3.94** **3.65**

11 **1.14** **1.28**

12 **3.09** **2.70**

13 **3.65** **3.93**

14 **0.11** **0.46**

15 **1.77** **2.16**

16 **1.01** **1.01**

17 **0.38** **0.05**

18 **0.89** **1.00**

19 **2.90** **2.95**

20 **0.69** **0.91**



Comparing Decimals

Name: _____

Date: _____

Score: _____

Compare the decimals. Write $<$, $>$ or $=$ in each box. (Line up the decimal points and compare digit by digit.)

1 **1.81** **2.00**

2 **4.05** **3.70**

3 **2.27** **2.20**

4 **2.28** **2.57**

5 **1.68** **1.50**

6 **1.98** **1.99**

7 **2.26** **1.94**

8 **2.10** **2.10**

9 **2.00** **2.29**

10 **3.27** **2.89**

11 **2.20** **2.14**

12 **2.33** **2.09**

13 **1.47** **1.71**

14 **1.30** **1.44**

15 **2.83** **2.98**

16 **2.60** **2.60**

17 **2.75** **2.78**

18 **0.72** **0.41**

19 **2.95** **3.31**

20 **2.55** **2.48**



Adding Decimals

Name: _____

Date: _____

Score: _____

Line up the decimal points and work out each answer.

1 $88.61 + 57.59 =$

2 $34.17 + 77.90 =$

3 $60.70 + 19.17 =$

4 $26.84 + 51.59 =$

5 $53.82 + 46.61 =$

6 $12.49 + 1.98 =$

7 $85.72 + 40.53 =$

8 $70.53 + 19.53 =$

9 $2.99 + 3.67 =$

10 $60.38 + 74.84 =$

11 $79.83 + 73.70 =$

12 $62.39 + 58.19 =$



Adding Decimals

Name: _____

Date: _____

Score: _____

Line up the decimal points and work out each answer.

1 $60.62 + 82.52 =$

2 $62.98 + 65.55 =$

3 $31.33 + 44.21 =$

4 $94.14 + 81.00 =$

5 $10.32 + 70.01 =$

6 $47.50 + 64.00 =$

7 $11.51 + 65.82 =$

8 $99.20 + 88.45 =$

9 $68.67 + 65.70 =$

10 $29.94 + 16.41 =$

11 $67.09 + 40.62 =$

12 $74.15 + 71.94 =$



Adding Decimals

Name: _____

Date: _____

Score: _____

Line up the decimal points and work out each answer.

1 $48.33 + 37.71 =$

2 $84.36 + 16.41 =$

3 $55.93 + 70.88 =$

4 $37.67 + 63.76 =$

5 $28.61 + 86.59 =$

6 $14.63 + 15.58 =$

7 $74.95 + 43.63 =$

8 $22.82 + 60.17 =$

9 $77.92 + 48.71 =$

10 $35.03 + 92.41 =$

11 $93.35 + 64.39 =$

12 $28.85 + 58.21 =$



Subtracting Decimals

Name: _____

Date: _____

Score: _____

Line up the decimal points and work out each answer.

1 $79.08 - 9.85 =$

2 $99.56 - 31.07 =$

3 $89.14 - 59.67 =$

4 $86.60 - 10.71 =$

5 $91.76 - 25.69 =$

6 $65.70 - 60.13 =$

7 $72.75 - 72.13 =$

8 $89.67 - 78.46 =$

9 $32.53 - 31.19 =$

10 $29.15 - 25.23 =$

11 $26.45 - 7.11 =$

12 $72.90 - 67.14 =$



Subtracting Decimals

Name: _____

Date: _____

Score: _____

Line up the decimal points and work out each answer.

1 $19.54 - 14.57 =$

2 $87.96 - 39.05 =$

3 $70.61 - 48.17 =$

4 $93.37 - 90.67 =$

5 $88.49 - 68.57 =$

6 $68.87 - 7.34 =$

7 $86.01 - 34.88 =$

8 $91.87 - 89.27 =$

9 $6.04 - 5.07 =$

10 $87.43 - 74.19 =$

11 $84.25 - 6.65 =$

12 $99.77 - 49.95 =$



Subtracting Decimals

Name: _____

Date: _____

Score: _____

Line up the decimal points and work out each answer.

1 $91.29 - 73.81 =$

2 $81.04 - 26.85 =$

3 $38.25 - 37.22 =$

4 $95.64 - 77.59 =$

5 $63.01 - 22.82 =$

6 $50.92 - 29.06 =$

7 $90.31 - 78.21 =$

8 $78.35 - 65.27 =$

9 $58.68 - 1.43 =$

10 $68.05 - 24.12 =$

11 $50.80 - 46.82 =$

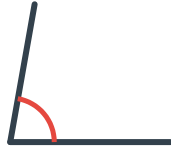
12 $72.85 - 1.63 =$

Types of Angles

Name: _____ Date: _____ Score: _____

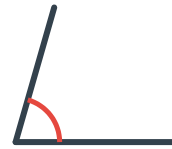
Classify each angle: acute (smaller than a right angle), right (exactly 90°) or obtuse (bigger than 90°). If an angle is a straight line, write 'straight'.

1



☐ acute ☐ right ☐
obtuse

2



☐ acute ☐ right ☐
obtuse

3



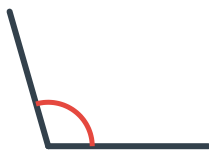
☐ acute ☐ right ☐
obtuse

4



☐ acute ☐ right ☐
obtuse

5



☐ acute ☐ right ☐
obtuse

6



☐ acute ☐ right ☐
obtuse

7



☐ acute ☐ right ☐
obtuse

8



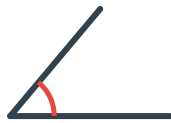
☐ acute ☐ right ☐
obtuse

Types of Angles

Name: _____ Date: _____ Score: _____

Classify each angle: acute (smaller than a right angle), right (exactly 90°) or obtuse (bigger than 90°). If an angle is a straight line, write 'straight'.

1



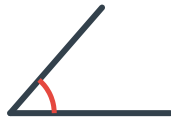
☐ acute ☐ right ☐
obtuse

2



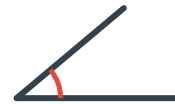
☐ acute ☐ right ☐
obtuse

3



☐ acute ☐ right ☐
obtuse

4



☐ acute ☐ right ☐
obtuse

5



☐ acute ☐ right ☐
obtuse

6



☐ acute ☐ right ☐
obtuse

7



☐ acute ☐ right ☐
obtuse

8



☐ acute ☐ right ☐
obtuse

Types of Angles

Name: _____ Date: _____ Score: _____

Classify each angle: acute (smaller than a right angle), right (exactly 90°) or obtuse (bigger than 90°). If an angle is a straight line, write 'straight'.

1



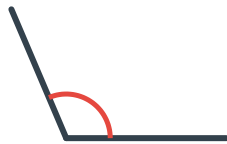
☐ acute ☐ right ☐
obtuse

2



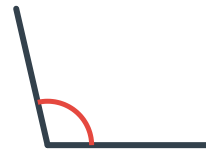
☐ acute ☐ right ☐
obtuse

3



☐ acute ☐ right ☐
obtuse

4



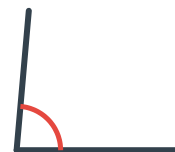
☐ acute ☐ right ☐
obtuse

5



☐ acute ☐ right ☐
obtuse

6



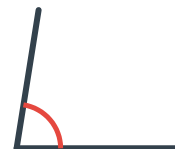
☐ acute ☐ right ☐
obtuse

7



☐ acute ☐ right ☐
obtuse

8



☐ acute ☐ right ☐
obtuse

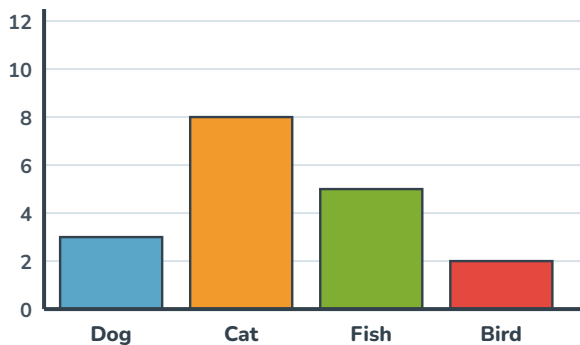
Bar Graph

Name: _____

Date: _____

Score: _____

Pets in our class



Use the bar graph to answer each question.

1 How many chose **Dog** ?

2 How many chose **Cat** ?

3 Which category is the **most popular** ?

4 Which category is the **least popular** ?

5
How many more chose **Dog** than **Cat** ? (If fewer, write the difference.)

6 How many were counted **altogether** ?

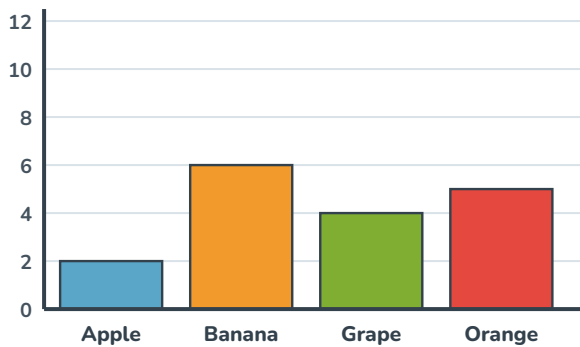
Bar Graph

Name: _____

Date: _____

Score: _____

Favourite fruit



Use the bar graph to answer each question.

1 How many chose **Apple** ?

2 How many chose **Banana** ?

3 Which category is the **most popular** ?

4 Which category is the **least popular** ?

5
How many more chose **Apple** than **Banana**

? (If fewer, write the difference.)

6 How many were counted **altogether** ?

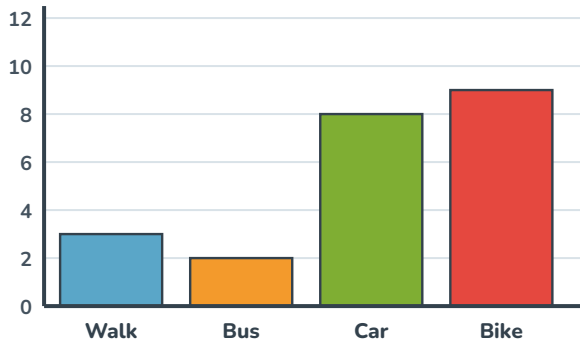
Bar Graph

Name: _____

Date: _____

Score: _____

How we travel to school



Use the bar graph to answer each question.

1 How many chose **Walk** ?

2 How many chose **Bus** ?

3 Which category is the **most popular** ?

4 Which category is the **least popular** ?

5

How many more chose **Walk** than **Bus**

? (If fewer, write the difference.)

6 How many were counted **altogether** ?

12 **Number Patterns**

Name: _____ Date: _____ Score: _____

Find the rule for each pattern. Write the next two numbers and the rule.

1 15 , 21 , 27 , 33 , 39 , , rule: _____

2 57 , 52 , 47 , 42 , 37 , , rule: _____

3 1 , 5 , 9 , 13 , 17 , , rule: _____

4 41 , 36 , 31 , 26 , 21 , , rule: _____

5 19 , 28 , 37 , 46 , 55 , , rule: _____

6 42 , 36 , 30 , 24 , 18 , , rule: _____

7 8 , 11 , 14 , 17 , 20 , , rule: _____

8 41 , 37 , 33 , 29 , 25 , , rule: _____

9 6 , 12 , 18 , 24 , 30 , , rule: _____

10 46 , 41 , 36 , 31 , 26 , , rule: _____

12 **Number Patterns**

Name: _____ Date: _____ Score: _____

Find the rule for each pattern. Write the next two numbers and the rule.

1 12 , 20 , 28 , 36 , 44 , , rule: _____

2 43 , 39 , 35 , 31 , 27 , , rule: _____

3 13 , 21 , 29 , 37 , 45 , , rule: _____

4 53 , 51 , 49 , 47 , 45 , , rule: _____

5 14 , 19 , 24 , 29 , 34 , , rule: _____

6 41 , 37 , 33 , 29 , 25 , , rule: _____

7 3 , 5 , 7 , 9 , 11 , , rule: _____

8 39 , 35 , 31 , 27 , 23 , , rule: _____

9 17 , 23 , 29 , 35 , 41 , , rule: _____

10 33 , 31 , 29 , 27 , 25 , , rule: _____

12 **Number Patterns**

Name: _____ Date: _____ Score: _____

Find the rule for each pattern. Write the next two numbers and the rule.

1 20 , 29 , 38 , 47 , 56 , , rule: _____

2 40 , 35 , 30 , 25 , 20 , , rule: _____

3 18 , 21 , 24 , 27 , 30 , , rule: _____

4 31 , 27 , 23 , 19 , 15 , , rule: _____

5 1 , 7 , 13 , 19 , 25 , , rule: _____

6 50 , 44 , 38 , 32 , 26 , , rule: _____

7 6 , 11 , 16 , 21 , 26 , , rule: _____

8 46 , 44 , 42 , 40 , 38 , , rule: _____

9 14 , 17 , 20 , 23 , 26 , , rule: _____

10 52 , 48 , 44 , 40 , 36 , , rule: _____

Ch. 1 · Adding Fractions (Same Denominator) – Sheet A

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

Ch. 1 · Adding Fractions (Same Denominator) – Sheet B

- | | | | |
|----------|--------------------------|-----------------------------|---------------------------|
| 1. 1 | 4. $7/5 = 1 \frac{2}{5}$ | 7. $17/10 = 1 \frac{7}{10}$ | 10. $3/4$ |
| 2. $3/5$ | 5. $3/5$ | 8. 1 | 11. 1 |
| 3. $1/2$ | 6. $5/8$ | 9. $11/8 = 1 \frac{3}{8}$ | 12. $7/6 = 1 \frac{1}{6}$ |

Ch. 1 · Adding Fractions (Same Denominator) – Sheet C

- | | | | |
|--------------------------|-----------------------------|----------|------------------------------|
| 1. $3/5$ | 4. 1 | 7. $3/5$ | 10. 1 |
| 2. 1 | 5. $3/4$ | 8. $3/4$ | 11. 1 |
| 3. $3/2 = 1 \frac{1}{2}$ | 6. $17/10 = 1 \frac{7}{10}$ | 9. 1 | 12. $13/10 = 1 \frac{3}{10}$ |

Ch. 1 · Improper Fractions and Mixed Numbers – Sheet A

- | | | | |
|--------------------|--------------------|--------------------|---------------------|
| 1. $2 \frac{4}{7}$ | 4. $13/6$ | 7. $3 \frac{8}{9}$ | 10. $19/4$ |
| 2. $9/6$ | 5. $6 \frac{4}{5}$ | 8. $8/3$ | 11. $3 \frac{2}{7}$ |
| 3. $4 \frac{1}{3}$ | 6. $8/5$ | 9. $3 \frac{2}{3}$ | 12. $10/7$ |

Ch. 1 · Improper Fractions and Mixed Numbers – Sheet B

- | | | | |
|--------------------|--------------------|--------------------|---------------------|
| 1. $4 \frac{1}{5}$ | 4. $18/4$ | 7. $6 \frac{1}{3}$ | 10. $11/2$ |
| 2. $35/6$ | 5. $3 \frac{2}{5}$ | 8. $38/7$ | 11. $3 \frac{4}{7}$ |
| 3. $6 \frac{7}{8}$ | 6. $44/9$ | 9. $1 \frac{4}{6}$ | 12. $13/4$ |

Ch. 1 · Improper Fractions and Mixed Numbers – Sheet C

- | | | | |
|--------------------|--------------------|--------------------|---------------------|
| 1. $2 \frac{3}{9}$ | 4. $21/5$ | 7. $1 \frac{1}{5}$ | 10. $10/8$ |
| 2. $30/9$ | 5. $6 \frac{1}{2}$ | 8. $23/6$ | 11. $6 \frac{4}{7}$ |
| 3. $2 \frac{1}{3}$ | 6. $16/5$ | 9. $3 \frac{4}{6}$ | 12. $32/5$ |

Ch. 1 · Fractions of Whole Numbers – Sheet A

- | | | | |
|------|-------|-------|------|
| 1. 6 | 3. 12 | 5. 28 | 7. 3 |
| 2. 2 | 4. 2 | 6. 4 | 8. 8 |

Ch. 1 · Fractions of Whole Numbers – Sheet B

- | | | | |
|------|-------|------|------|
| 1. 6 | 3. 20 | 5. 2 | 7. 4 |
| 2. 4 | 4. 25 | 6. 4 | 8. 8 |

Ch. 1 · Fractions of Whole Numbers – Sheet C

- | | | | |
|-------|-------|------|-------|
| 1. 4 | 3. 18 | 5. 2 | 7. 6 |
| 2. 12 | 4. 5 | 6. 6 | 8. 48 |

Ch. 2 · Decimal Place Value – Sheet A

- | | | | |
|-----------|-----------|-----------|---------|
| 1. tenths | 4. 0.5 | 7. tenths | 10. 0.8 |
| 2. 0.4 | 5. tenths | 8. 0.5 | |
| 3. tenths | 6. 0.05 | 9. tenths | |

Ch. 2 · Decimal Place Value – Sheet B

1. tenths	4. 0.9	7. tenths	10. 0.3
2. 0.4	5. tenths	8. 0.6	
3. tenths	6. 0.2	9. tenths	

Ch. 2 · Decimal Place Value – Sheet C

1. tenths	4. 0.3	7. tenths	10. 0.03
2. 0.8	5. tenths	8. 0.09	
3. tenths	6. 0.5	9. hundredths	

Ch. 2 · Comparing Decimals – Sheet A

1. >	6. <	11. >	16. =
2. >	7. <	12. <	17. >
3. >	8. =	13. <	18. >
4. >	9. >	14. >	19. >
5. <	10. <	15. >	20. <

Ch. 2 · Comparing Decimals – Sheet B

1. >	6. >	11. <	16. =
2. >	7. >	12. >	17. >
3. >	8. =	13. <	18. <
4. <	9. <	14. <	19. <
5. <	10. >	15. <	20. <

Ch. 2 · Comparing Decimals – Sheet C

1. <	6. <	11. >	16. =
2. >	7. >	12. >	17. <
3. >	8. =	13. <	18. >
4. <	9. <	14. <	19. <
5. >	10. >	15. <	20. >

Ch. 2 · Adding Decimals – Sheet A

1. 146.20	4. 78.43	7. 126.25	10. 135.22
2. 112.07	5. 100.43	8. 90.06	11. 153.53
3. 79.87	6. 14.47	9. 6.66	12. 120.58

Ch. 2 · Adding Decimals – Sheet B

1. 143.14	4. 175.14	7. 77.33	10. 46.35
2. 128.53	5. 80.33	8. 187.65	11. 107.71
3. 75.54	6. 111.50	9. 134.37	12. 146.09

Ch. 2 · Adding Decimals – Sheet C

1. 86.04	4. 101.43	7. 118.58	10. 127.44
2. 100.77	5. 115.20	8. 82.99	11. 157.74
3. 126.81	6. 30.21	9. 126.63	12. 87.06

Ch. 2 · Subtracting Decimals – Sheet A

1. 69.23	4. 75.89	7. 0.62	10. 3.92
2. 68.49	5. 66.07	8. 11.21	11. 19.34
3. 29.47	6. 5.57	9. 1.34	12. 5.76

Ch. 2 · Subtracting Decimals – Sheet B

1. 4.97	4. 2.70	7. 51.13	10. 13.24
2. 48.91	5. 19.92	8. 2.60	11. 77.60
3. 22.44	6. 61.53	9. 0.97	12. 49.82

Ch. 2 · Subtracting Decimals – Sheet C

1. 17.48	4. 18.05	7. 12.10	10. 43.93
2. 54.19	5. 40.19	8. 13.08	11. 3.98
3. 1.03	6. 21.86	9. 57.25	12. 71.22

Ch. 3 · Types of Angles – Sheet A

1. acute	4. obtuse	7. straight	10. obtuse
2. acute	5. obtuse	8. acute	
3. obtuse	6. right	9. acute	

Ch. 3 · Types of Angles – Sheet B

1. acute	4. acute	7. obtuse	10. obtuse
2. acute	5. obtuse	8. straight	
3. acute	6. right	9. right	

Ch. 3 · Types of Angles – Sheet C

1. straight	4. obtuse	7. acute	10. obtuse
2. right	5. right	8. acute	
3. obtuse	6. acute	9. acute	

Ch. 3 · Bar Graph – Sheet A

1. 3	3. Cat	5. 5
2. 8	4. Bird	6. 18

Ch. 3 · Bar Graph – Sheet B

1. 2	3. Banana	5. 4
2. 6	4. Apple	6. 17

Ch. 3 · Bar Graph – Sheet C

1. 3	3. Bike	5. 1
2. 2	4. Bus	6. 22

Ch. 3 · Number Patterns – Sheet A

1. 45, 51; rule: add 6	4. 16, 11; rule: subtract 5	7. 23, 26; rule: add 3	10. 21, 16; rule: subtract 5
2. 32, 27; rule: subtract 5	5. 64, 73; rule: add 9	8. 21, 17; rule: subtract 4	
3. 21, 25; rule: add 4	6. 12, 6; rule: subtract 6	9. 36, 42; rule: add 6	

Ch. 3 · Number Patterns – Sheet B

1. 52, 60; rule: add 8	4. 43, 41; rule: subtract 2	7. 13, 15; rule: add 2	10. 23, 21; rule: subtract 2
2. 23, 19; rule: subtract 4	5. 39, 44; rule: add 5	8. 19, 15; rule: subtract 4	
3. 53, 61; rule: add 8	6. 21, 17; rule: subtract 4	9. 47, 53; rule: add 6	

Ch. 3 · Number Patterns – Sheet C

- | | | | |
|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 1. 65, 74; rule: add 9 | 4. 11, 7; rule: subtract 4 | 7. 31, 36; rule: add 5 | 10. 32, 28; rule: subtract 4 |
| 2. 15, 10; rule: subtract 5 | 5. 31, 37; rule: add 6 | 8. 36, 34; rule: subtract 2 | |
| 3. 33, 36; rule: add 3 | 6. 20, 14; rule: subtract 6 | 9. 29, 32; rule: add 3 | |