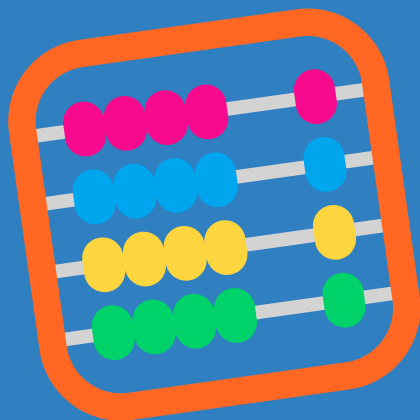


GRADE 6 • WORKBOOK

Grade 6 Math Bridge

Integers, ratios, percents and equations.



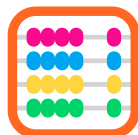
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41 pages • syllabus • answer key included



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Grade 6 Math Bridge



A bridge into middle school: integers, ratios and rates, percents and one- and two-step equations.

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

Integers on a Number Line

Comparing Integers

Adding Integers

Subtracting Integers

Absolute Value

Equivalent Ratios

Unit Rates

Solving Proportions

Percent of a Number

Discount Word Problems

One-Step Equations: Multiplication and Division

Two-Step Equations

Squares and Square Roots

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	Integers	p. 3–17
	Integers on a Number Line · Comparing Integers · Adding Integers · Subtracting Integers · Absolute Value	
2	Ratios and percents	p. 18–32
	Equivalent Ratios · Unit Rates · Solving Proportions · Percent of a Number · Discount Word Problems	
3	Equations	p. 33–41
	One-Step Equations: Multiplication and Division · Two-Step Equations · Squares and Square Roots	
	Answer key	p. 42
	Answers for every sheet in the book	

Integers on a Number Line

Name: _____

Date: _____

Score: _____

Read the integer shown by the red point on each number line.

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

7



The point is at

8



12 Integers on a Number Line

Name: _____ Date: _____ Score: _____

Read the integer shown by the red point on each number line.

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

7



The point is at

8



Integers on a Number Line

Name: _____

Date: _____

Score: _____

Read the integer shown by the red point on each number line.

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

7



The point is at

8





Comparing Integers

Name: _____

Date: _____

Score: _____

Write $<$, $>$ or $=$ in each box. Remember: on a number line, numbers further to the left are smaller.

1 **10** **-7**

2 **6** **3**

3 **-7** **-11**

4 **-6** **12**

5 **2** **-16**

6 **-9** **-3**

7 **0** **0**

8 **-4** **20**

9 **-6** **-14**

10 **-3** **-12**

11 **4** **3**

12 **0** **16**

13 **17** **-17**

14 **-11** **-11**

15 **3** **7**

16 **15** **20**

17 **13** **-2**

18 **18** **-14**

19 **19** **-17**

20 **-9** **0**



Comparing Integers

Name: _____

Date: _____

Score: _____

Write $<$, $>$ or $=$ in each box. Remember: on a number line, numbers further to the left are smaller.

1 -2 12

2 5 9

3 -3 -16

4 2 12

5 6 12

6 -15 8

7 8 8

8 -11 -10

9 -11 7

10 10 12

11 -3 2

12 5 -18

13 9 -18

14 20 20

15 1 18

16 -9 8

17 -12 7

18 -18 -11

19 13 14

20 1 -20



Comparing Integers

Name: _____

Date: _____

Score: _____

Write $<$, $>$ or $=$ in each box. Remember: on a number line, numbers further to the left are smaller.

1 -5 17

2 20 7

3 16 15

4 -6 16

5 -13 4

6 -4 19

7 5 5

8 0 5

9 13 9

10 14 3

11 -9 0

12 -1 -5

13 -15 8

14 6 6

15 -2 10

16 -5 4

17 5 -2

18 -12 12

19 5 18

20 -2 18



Adding Integers

Name: _____

Date: _____

Score: _____

Solve. Picture a number line: adding moves right, subtracting moves left.

1 $7 + (-9) = \square$

2 $-2 + 2 = \square$

3 $5 + (-10) = \square$

4 $11 + 5 = \square$

5 $2 + (-3) = \square$

6 $-2 + 4 = \square$

7 $-12 + 3 = \square$

8 $11 + 2 = \square$

9 $1 + (-6) = \square$

10 $-10 + 10 = \square$

11 $9 + 7 = \square$

12 $12 + (-7) = \square$

13 $-1 + 7 = \square$

14 $1 + (-7) = \square$

15 $-12 + 1 = \square$

16 $-9 + 4 = \square$

17 $11 + (-2) = \square$

18 $-7 + 6 = \square$

19 $-8 + 12 = \square$

20 $-12 + (-8) = \square$



Adding Integers

Name: _____

Date: _____

Score: _____

Solve. Picture a number line: adding moves right, subtracting moves left.

1 $-2 + (-3) = \square$

2 $1 + (-12) = \square$

3 $-2 + 12 = \square$

4 $9 + 12 = \square$

5 $-12 + 3 = \square$

6 $-4 + (-8) = \square$

7 $-3 + 3 = \square$

8 $7 + (-5) = \square$

9 $-11 + (-5) = \square$

10 $2 + (-3) = \square$

11 $-6 + (-12) = \square$

12 $4 + 2 = \square$

13 $-11 + (-2) = \square$

14 $6 + (-11) = \square$

15 $-10 + (-9) = \square$

16 $6 + (-9) = \square$

17 $4 + (-7) = \square$

18 $-4 + 0 = \square$

19 $-11 + (-6) = \square$

20 $3 + 10 = \square$



Adding Integers

Name: _____

Date: _____

Score: _____

Solve. Picture a number line: adding moves right, subtracting moves left.

1 $8 + (-11) = \square$

2 $-7 + 12 = \square$

3 $-3 + 0 = \square$

4 $-4 + 4 = \square$

5 $-10 + 3 = \square$

6 $5 + (-11) = \square$

7 $-5 + 9 = \square$

8 $6 + (-5) = \square$

9 $-8 + (-9) = \square$

10 $6 + 3 = \square$

11 $-12 + (-9) = \square$

12 $6 + (-6) = \square$

13 $-10 + 6 = \square$

14 $0 + 4 = \square$

15 $-4 + 7 = \square$

16 $0 + 8 = \square$

17 $7 + 0 = \square$

18 $11 + (-8) = \square$

19 $-10 + 2 = \square$

20 $-2 + 6 = \square$



Subtracting Integers

Name: _____

Date: _____

Score: _____

Solve. Picture a number line: adding moves right, subtracting moves left.

1 $1 - (-4) = \square$

2 $-1 - (-2) = \square$

3 $-3 - (-7) = \square$

4 $-2 - (-8) = \square$

5 $-12 - 1 = \square$

6 $11 - 12 = \square$

7 $-8 - 9 = \square$

8 $6 - (-4) = \square$

9 $-11 - (-3) = \square$

10 $8 - (-3) = \square$

11 $-10 - (-4) = \square$

12 $-1 - 10 = \square$

13 $-5 - 0 = \square$

14 $10 - (-2) = \square$

15 $-9 - (-4) = \square$

16 $-10 - 0 = \square$

17 $-10 - (-11) = \square$

18 $7 - 5 = \square$

19 $12 - (-5) = \square$

20 $-7 - (-6) = \square$



Subtracting Integers

Name: _____

Date: _____

Score: _____

Solve. Picture a number line: adding moves right, subtracting moves left.

1 $-7 - 7 = \square$

2 $11 - 7 = \square$

3 $7 - 9 = \square$

4 $12 - (-10) = \square$

5 $-3 - 6 = \square$

6 $5 - (-1) = \square$

7 $-4 - 6 = \square$

8 $11 - (-9) = \square$

9 $-8 - 6 = \square$

10 $-4 - (-9) = \square$

11 $-12 - 5 = \square$

12 $-4 - 5 = \square$

13 $8 - (-5) = \square$

14 $5 - 12 = \square$

15 $-2 - 1 = \square$

16 $-11 - 7 = \square$

17 $0 - (-5) = \square$

18 $-1 - 1 = \square$

19 $2 - (-10) = \square$

20 $2 - 6 = \square$



Subtracting Integers

Name: _____

Date: _____

Score: _____

Solve. Picture a number line: adding moves right, subtracting moves left.

1 $-6 - (-7) = \square$

2 $-2 - (-2) = \square$

3 $-2 - 12 = \square$

4 $-6 - (-12) = \square$

5 $-6 - 1 = \square$

6 $-7 - (-1) = \square$

7 $7 - (-7) = \square$

8 $7 - 11 = \square$

9 $11 - (-9) = \square$

10 $0 - (-11) = \square$

11 $4 - (-5) = \square$

12 $-12 - (-9) = \square$

13 $-12 - (-10) = \square$

14 $12 - 9 = \square$

15 $7 - (-4) = \square$

16 $11 - 8 = \square$

17 $-8 - 0 = \square$

18 $1 - (-5) = \square$

19 $-3 - 11 = \square$

20 $1 - 2 = \square$



Absolute Value

Name: _____

Date: _____

Score: _____

Absolute value is the distance from zero, so it is never negative.

1 $|-20| = \square$

2 $|-18| = \square$

3 $|17| = \square$

4 $|-1| = \square$

5 $|20| = \square$

6 $|19| = \square$

7 $|18| = \square$

8 $|1| = \square$

9 $|0| = \square$

10 $|15| = \square$

11 $|-10| = \square$

12 $|10| = \square$

13 $|-4| = \square$

14 $|5| = \square$

15 $|14| = \square$

16 $|8| = \square$



Absolute Value

Name: _____

Date: _____

Score: _____

Absolute value is the distance from zero, so it is never negative.

1 $|12| = \square$

2 $|0| = \square$

3 $|-5| = \square$

4 $|8| = \square$

5 $|-4| = \square$

6 $|-10| = \square$

7 $|-13| = \square$

8 $|-6| = \square$

9 $|-1| = \square$

10 $|-20| = \square$

11 $|-2| = \square$

12 $|3| = \square$

13 $|-7| = \square$

14 $|-19| = \square$

15 $|13| = \square$

16 $|-8| = \square$



Absolute Value

Name: _____

Date: _____

Score: _____

Absolute value is the distance from zero, so it is never negative.

1 $|14| = \square$

2 $|2| = \square$

3 $|-16| = \square$

4 $|12| = \square$

5 $|7| = \square$

6 $|-19| = \square$

7 $|-15| = \square$

8 $|-4| = \square$

9 $|19| = \square$

10 $|-2| = \square$

11 $|-6| = \square$

12 $|10| = \square$

13 $|-14| = \square$

14 $|3| = \square$

15 $|-5| = \square$

16 $|17| = \square$



Equivalent Ratios

Name: _____

Date: _____

Score: _____

Equivalent ratios are found by multiplying (or dividing) both parts by the same number.

1 $7 : 6 = \square : 42$

2 $1 : 9 = 5 : \square$

3 $8 : 4 = \square : 8$

4 $9 : 7 = 45 : \square$

5 $6 : 2 = \square : 4$

6 $1 : 5 = 4 : \square$

7 $7 : 3 = 56 : \square$

8 $9 : 3 = \square : 6$

9 $5 : 10 = 35 : \square$

10 $2 : 10 = \square : 70$

11 $3 : 5 = \square : 30$

12 $6 : 9 = \square : 45$



Equivalent Ratios

Name: _____

Date: _____

Score: _____

Equivalent ratios are found by multiplying (or dividing) both parts by the same number.

1 $4 : 8 = 28 : \boxed{}$

2 $7 : 2 = 21 : \boxed{}$

3 $6 : 10 = \boxed{} : 50$

4 $7 : 9 = 49 : \boxed{}$

5 $1 : 7 = \boxed{} : 49$

6 $9 : 3 = 63 : \boxed{}$

7 $6 : 10 = \boxed{} : 30$

8 $2 : 9 = \boxed{} : 27$

9 $7 : 8 = \boxed{} : 40$

10 $4 : 10 = 12 : \boxed{}$

11 $3 : 8 = \boxed{} : 16$

12 $8 : 5 = 64 : \boxed{}$



Equivalent Ratios

Name: _____

Date: _____

Score: _____

Equivalent ratios are found by multiplying (or dividing) both parts by the same number.

1 $4 : 7 = 20 : \boxed{}$

2 $9 : 6 = 36 : \boxed{}$

3 $7 : 6 = \boxed{} : 30$

4 $1 : 10 = 3 : \boxed{}$

5 $1 : 5 = \boxed{} : 25$

6 $2 : 8 = 16 : \boxed{}$

7 $6 : 2 = \boxed{} : 16$

8 $6 : 4 = \boxed{} : 24$

9 $5 : 4 = 20 : \boxed{}$

10 $2 : 9 = 12 : \boxed{}$

11 $6 : 10 = \boxed{} : 60$

12 $1 : 6 = \boxed{} : 24$

 Unit Rates

Name: _____

Date: _____

Score: _____

Divide to find the unit rate (the cost or amount for just one).

- 1 11 eggs cost \$88. What is the cost of one?

- 2 10 apples cost \$80. What is the cost of one?

- 3 12 notebooks cost \$60. What is the cost of one?

- 4 8 tickets cost \$16. What is the cost of one?

- 5 7 oranges cost \$63. What is the cost of one?

- 6 2 eggs cost \$10. What is the cost of one?

- 7 2 stickers cost \$14. What is the cost of one?

- 8 5 oranges cost \$35. What is the cost of one?

 Unit Rates

Name: _____

Date: _____

Score: _____

Divide to find the unit rate (the cost or amount for just one).

- 1 10 oranges cost £40. What is the cost of one?

- 2 5 tickets cost £10. What is the cost of one?

- 3 7 stickers cost £28. What is the cost of one?

- 4 2 notebooks cost £14. What is the cost of one?

- 5 6 tickets cost £18. What is the cost of one?

- 6 3 stickers cost £12. What is the cost of one?

- 7 12 notebooks cost £84. What is the cost of one?

- 8 4 notebooks cost £32. What is the cost of one?

 Unit Rates

Name: _____

Date: _____

Score: _____

Divide to find the unit rate (the cost or amount for just one).

- 1 11 pencils cost €66. What is the cost of one?

- 2 12 stickers cost €72. What is the cost of one?

- 3 5 notebooks cost €35. What is the cost of one?

- 4 8 pencils cost €24. What is the cost of one?

- 5 6 batteries cost €12. What is the cost of one?

- 6 5 pencils cost €45. What is the cost of one?

- 7 3 batteries cost €18. What is the cost of one?

- 8 5 tickets cost €45. What is the cost of one?

Solving Proportions

Name: _____ Date: _____ Score: _____

Solve each proportion for the missing number (cross-multiply, or spot the scale factor).

$$1 \quad \frac{9}{\boxed{}} = \frac{63}{56}$$

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

$$3 \quad \frac{7}{\boxed{}} = \frac{28}{28}$$

$$4 \quad \frac{2}{2} = \frac{10}{\boxed{}}$$

$$5 \quad \frac{6}{9} = \frac{\boxed{}}{18}$$

$$6 \quad \frac{7}{\boxed{}} = \frac{14}{18}$$

$$7 \quad \frac{4}{4} = \frac{\boxed{}}{36}$$

$$8 \quad \frac{\boxed{}}{2} = \frac{49}{14}$$

$$9 \quad \frac{6}{2} = \frac{36}{\boxed{}}$$

$$10 \quad \frac{8}{4} = \frac{\boxed{}}{8}$$

$$11 \quad \frac{2}{\boxed{}} = \frac{12}{24}$$

$$12 \quad \frac{5}{8} = \frac{\boxed{}}{32}$$

Solving Proportions

Name: _____ Date: _____ Score: _____

Solve each proportion for the missing number (cross-multiply, or spot the scale factor).

$$1 \quad \frac{4}{\boxed{}} = \frac{16}{28}$$

$$2 \quad \frac{9}{4} = \frac{\boxed{}}{36}$$

$$3 \quad \frac{\boxed{}}{4} = \frac{36}{16}$$

$$4 \quad \frac{6}{\boxed{}} = \frac{24}{8}$$

$$5 \quad \frac{1}{6} = \frac{\boxed{}}{30}$$

$$6 \quad \frac{2}{9} = \frac{\boxed{}}{54}$$

$$7 \quad \frac{\boxed{}}{4} = \frac{45}{36}$$

$$8 \quad \frac{7}{2} = \frac{21}{\boxed{}}$$

$$9 \quad \frac{9}{3} = \frac{\boxed{}}{15}$$

$$10 \quad \frac{8}{6} = \frac{\boxed{}}{36}$$

$$11 \quad \frac{1}{8} = \frac{2}{\boxed{}}$$

$$12 \quad \frac{7}{\boxed{}} = \frac{56}{24}$$

Solving Proportions

Name: _____ Date: _____ Score: _____

Solve each proportion for the missing number (cross-multiply, or spot the scale factor).

1 $\frac{3}{\boxed{}} = \frac{6}{6}$

2 $\frac{9}{\boxed{}} = \frac{81}{90}$

3 $\frac{\boxed{}}{7} = \frac{49}{49}$

4 $\frac{\boxed{}}{9} = \frac{40}{72}$

5 $\frac{7}{5} = \frac{28}{\boxed{}}$

6 $\frac{\boxed{}}{4} = \frac{12}{12}$

7 $\frac{\boxed{}}{6} = \frac{20}{24}$

8 $\frac{3}{8} = \frac{6}{\boxed{}}$

9 $\frac{4}{9} = \frac{36}{\boxed{}}$

10 $\frac{8}{\boxed{}} = \frac{40}{40}$

11 $\frac{2}{6} = \frac{8}{\boxed{}}$

12 $\frac{7}{5} = \frac{49}{\boxed{}}$

12 Percent of a Number

Name: _____ Date: _____ Score: _____

Find the percent of each number. (10% is one tenth; 50% is half; 25% is a quarter.)

1 **75% of 400 =**

2 **50% of 500 =**

3 **75% of 80 =**

4 **50% of 120 =**

5 **50% of 100 =**

6 **25% of 40 =**

7 **10% of 300 =**

8 **25% of 100 =**

9 **25% of 200 =**

10 **20% of 60 =**

11 **10% of 20 =**

12 **25% of 20 =**

13 **10% of 400 =**

14 **50% of 300 =**

15 **20% of 80 =**

16 **50% of 20 =**

12 Percent of a Number

Name: _____ Date: _____ Score: _____

Find the percent of each number. (10% is one tenth; 50% is half; 25% is a quarter.)

1 **25% of 300 =**

2 **75% of 300 =**

3 **10% of 80 =**

4 **75% of 40 =**

5 **25% of 160 =**

6 **20% of 200 =**

7 **25% of 120 =**

8 **75% of 500 =**

9 **20% of 20 =**

10 **50% of 200 =**

11 **10% of 100 =**

12 **20% of 100 =**

13 **10% of 200 =**

14 **25% of 60 =**

15 **75% of 200 =**

16 **50% of 400 =**

12 Percent of a Number

Name: _____ Date: _____ Score: _____

Find the percent of each number. (10% is one tenth; 50% is half; 25% is a quarter.)

1 **75% of 300 =**

2 **50% of 200 =**

3 **10% of 200 =**

4 **75% of 200 =**

5 **10% of 160 =**

6 **50% of 160 =**

7 **75% of 20 =**

8 **20% of 20 =**

9 **50% of 400 =**

10 **50% of 300 =**

11 **20% of 200 =**

12 **10% of 500 =**

13 **50% of 500 =**

14 **20% of 400 =**

15 **75% of 500 =**

16 **25% of 160 =**

 Discount Word Problems

Name: _____

Date: _____

Score: _____

Find the discount first. Then subtract it from the original price when the question asks for the sale price.

- 1 A backpack costs \$200. It is 50% off in a sale. How much money is taken off?

- 2 A lunch box costs \$120. It is 20% off in a sale. What is the sale price?

- 3 A backpack costs \$150. It is 30% off in a sale. How much money is taken off?

- 4 A football costs \$20. It is 50% off in a sale. What is the sale price?

- 5 A bicycle helmet costs \$150. It is 10% off in a sale. How much money is taken off?

- 6 A bicycle helmet costs \$60. It is 20% off in a sale. What is the sale price?

- 7 A board game costs \$20. It is 10% off in a sale. How much money is taken off?

- 8 A football costs \$50. It is 20% off in a sale. What is the sale price?

 Discount Word Problems

Name: _____

Date: _____

Score: _____

Find the discount first. Then subtract it from the original price when the question asks for the sale price.

- 1 A board game costs £120. It is 30% off in a sale. How much money is taken off?

- 2 A lunch box costs £60. It is 15% off in a sale. What is the sale price?

- 3 A pair of shoes costs £20. It is 20% off in a sale. How much money is taken off?

- 4 A jacket costs £150. It is 20% off in a sale. What is the sale price?

- 5 A football costs £30. It is 10% off in a sale. How much money is taken off?

- 6 A tablet cover costs £200. It is 15% off in a sale. What is the sale price?

- 7 A football costs £80. It is 20% off in a sale. How much money is taken off?

- 8 A pair of shoes costs £120. It is 10% off in a sale. What is the sale price?

 Discount Word Problems

Name: _____

Date: _____

Score: _____

Find the discount first. Then subtract it from the original price when the question asks for the sale price.

- 1 A tablet cover costs €60. It is 25% off in a sale. How much money is taken off?

- 2 A bicycle helmet costs €200. It is 10% off in a sale. What is the sale price?

- 3 A bicycle helmet costs €24. It is 50% off in a sale. How much money is taken off?

- 4 A football costs €60. It is 30% off in a sale. What is the sale price?

- 5 A tablet cover costs €20. It is 15% off in a sale. How much money is taken off?

- 6 A bicycle helmet costs €24. It is 50% off in a sale. What is the sale price?

- 7 A bicycle helmet costs €60. It is 25% off in a sale. How much money is taken off?

- 8 A lunch box costs €60. It is 15% off in a sale. What is the sale price?



One-Step Equations: Multiplication and Division

Name: _____ Date: _____ Score: _____

Solve for x. Use the opposite operation to get x on its own, then check your answer.

1 $5x = 65$ $x = \square$

2 $x \div 11 = 13$ $x = \square$

3 $5x = 30$ $x = \square$

4 $x \div 6 = 5$ $x = \square$

5 $3x = 42$ $x = \square$

6 $x \div 6 = 11$ $x = \square$

7 $8x = 120$ $x = \square$

8 $x \div 7 = 15$ $x = \square$

9 $x \div 10 = 4$ $x = \square$

10 $10x = 50$ $x = \square$

11 $2x = 28$ $x = \square$

12 $x \div 10 = 7$ $x = \square$

13 $x \div 2 = 6$ $x = \square$

14 $x \div 12 = 6$ $x = \square$

15 $11x = 22$ $x = \square$

16 $x \div 11 = 9$ $x = \square$



One-Step Equations: Multiplication and Division

Name: _____ Date: _____ Score: _____

Solve for x. Use the opposite operation to get x on its own, then check your answer.

1 $x \div 2 = 5$ $x = \square$

2 $x \div 5 = 15$ $x = \square$

3 $x \div 3 = 12$ $x = \square$

4 $x \div 7 = 4$ $x = \square$

5 $3x = 36$ $x = \square$

6 $x \div 5 = 6$ $x = \square$

7 $x \div 8 = 10$ $x = \square$

8 $x \div 6 = 5$ $x = \square$

9 $4x = 60$ $x = \square$

10 $2x = 14$ $x = \square$

11 $x \div 7 = 13$ $x = \square$

12 $8x = 64$ $x = \square$

13 $x \div 5 = 11$ $x = \square$

14 $6x = 84$ $x = \square$

15 $x \div 11 = 6$ $x = \square$

16 $6x = 24$ $x = \square$



One-Step Equations: Multiplication and Division

Name: _____ Date: _____ Score: _____

Solve for x. Use the opposite operation to get x on its own, then check your answer.

1 $12x = 108$ $x =$

2 $10x = 130$ $x =$

3 $x \div 3 = 6$ $x =$

4 $12x = 132$ $x =$

5 $x \div 9 = 7$ $x =$

6 $4x = 52$ $x =$

7 $4x = 48$ $x =$

8 $x \div 12 = 15$ $x =$

9 $x \div 11 = 6$ $x =$

10 $x \div 10 = 6$ $x =$

11 $8x = 40$ $x =$

12 $x \div 9 = 9$ $x =$

13 $x \div 7 = 7$ $x =$

14 $8x = 96$ $x =$

15 $10x = 20$ $x =$

16 $6x = 60$ $x =$

★ Two-Step Equations

Name: _____

Date: _____

Score: _____

Two steps: undo the adding or subtracting first, then undo the multiplying.

1 $8x + 17 = 97$ $x = \boxed{}$

2 $6x - 13 = 29$ $x = \boxed{}$

3 $6x + 20 = 86$ $x = \boxed{}$

4 $3x - 9 = 3$ $x = \boxed{}$

5 $5x + 6 = 26$ $x = \boxed{}$

6 $5x - 7 = 13$ $x = \boxed{}$

7 $7x - 3 = 25$ $x = \boxed{}$

8 $9x - 10 = 17$ $x = \boxed{}$

9 $3x + 10 = 40$ $x = \boxed{}$

10 $2x + 11 = 13$ $x = \boxed{}$

11 $8x + 12 = 84$ $x = \boxed{}$

12 $6x - 4 = 62$ $x = \boxed{}$

★ Two-Step Equations

Name: _____

Date: _____

Score: _____

Two steps: undo the adding or subtracting first, then undo the multiplying.

1 $6x - 6 = 24$ $x = \boxed{}$

2 $4x - 11 = 33$ $x = \boxed{}$

3 $6x + 1 = 55$ $x = \boxed{}$

4 $9x + 12 = 111$ $x = \boxed{}$

5 $7x - 17 = 67$ $x = \boxed{}$

6 $6x + 8 = 74$ $x = \boxed{}$

7 $9x - 6 = 84$ $x = \boxed{}$

8 $3x - 10 = 14$ $x = \boxed{}$

9 $5x - 20 = 10$ $x = \boxed{}$

10 $3x - 8 = 22$ $x = \boxed{}$

11 $2x + 6 = 8$ $x = \boxed{}$

12 $3x + 7 = 28$ $x = \boxed{}$

★ Two-Step Equations

Name: _____

Date: _____

Score: _____

Two steps: undo the adding or subtracting first, then undo the multiplying.

1 $3x - 14 = 1$ $x = \boxed{}$

2 $3x + 8 = 41$ $x = \boxed{}$

3 $9x - 16 = 38$ $x = \boxed{}$

4 $6x + 20 = 26$ $x = \boxed{}$

5 $4x + 10 = 58$ $x = \boxed{}$

6 $9x + 14 = 86$ $x = \boxed{}$

7 $7x + 20 = 48$ $x = \boxed{}$

8 $8x - 19 = 37$ $x = \boxed{}$

9 $2x - 6 = 16$ $x = \boxed{}$

10 $7x - 1 = 48$ $x = \boxed{}$

11 $2x + 15 = 27$ $x = \boxed{}$

12 $7x - 3 = 32$ $x = \boxed{}$

★ Squares and Square Roots

Name: _____

Date: _____

Score: _____

Squares and square roots are opposites. Find each value.

1 $12^2 = \square$

2 $\sqrt{100} = \square$

3 $\sqrt{16} = \square$

4 $\sqrt{36} = \square$

5 $\sqrt{169} = \square$

6 $9^2 = \square$

7 $3^2 = \square$

8 $\sqrt{64} = \square$

9 $\sqrt{4} = \square$

10 $\sqrt{225} = \square$

11 $\sqrt{49} = \square$

12 $\sqrt{121} = \square$

13 $\sqrt{196} = \square$

14 $5^2 = \square$

★ Squares and Square Roots

Name: _____

Date: _____

Score: _____

Squares and square roots are opposites. Find each value.

1 $\sqrt{16} = \square$

2 $\sqrt{169} = \square$

3 $11^2 = \square$

4 $\sqrt{81} = \square$

5 $\sqrt{64} = \square$

6 $\sqrt{196} = \square$

7 $5^2 = \square$

8 $3^2 = \square$

9 $\sqrt{100} = \square$

10 $\sqrt{49} = \square$

11 $\sqrt{4} = \square$

12 $\sqrt{225} = \square$

13 $\sqrt{144} = \square$

14 $\sqrt{36} = \square$

★ Squares and Square Roots

Name: _____

Date: _____

Score: _____

Squares and square roots are opposites. Find each value.

1 $\sqrt{225} = \square$

2 $\sqrt{81} = \square$

3 $7^2 = \square$

4 $\sqrt{36} = \square$

5 $\sqrt{9} = \square$

6 $\sqrt{196} = \square$

7 $4^2 = \square$

8 $\sqrt{100} = \square$

9 $\sqrt{144} = \square$

10 $13^2 = \square$

11 $\sqrt{121} = \square$

12 $\sqrt{4} = \square$

13 $\sqrt{64} = \square$

14 $5^2 = \square$

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

1. -2	3. -8	5. 1	7. 9
2. 7	4. 0	6. -3	8. 5

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

1. -7	3. -4	5. 1	7. -8
2. 0	4. -6	6. -1	8. 8

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

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

Ch. 1 · Comparing Integers – Sheet A

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

Ch. 1 · Comparing Integers – Sheet B

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

Ch. 1 · Comparing Integers – Sheet C

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

Ch. 1 · Adding Integers – Sheet A

1. -2	6. 2	11. 16	16. -5
2. 0	7. -9	12. 5	17. 9
3. -5	8. 13	13. 6	18. -1
4. 16	9. -5	14. -6	19. 4
5. -1	10. 0	15. -11	20. -20

Ch. 1 · Adding Integers – Sheet B

1. -5	6. -12	11. -18	16. -3
2. -11	7. 0	12. 6	17. -3
3. 10	8. 2	13. -13	18. -4
4. 21	9. -16	14. -5	19. -17
5. -9	10. -1	15. -19	20. 13

Ch. 1 · Adding Integers – Sheet C

1. -3	6. -6	11. -21	16. 8
2. 5	7. 4	12. 0	17. 7
3. -3	8. 1	13. -4	18. 3
4. 0	9. -17	14. 4	19. -8
5. -7	10. 9	15. 3	20. 4

Ch. 1 · Subtracting Integers – Sheet A

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

Ch. 1 · Subtracting Integers – Sheet B

1. -14	6. 6	11. -17	16. -18
2. 4	7. -10	12. -9	17. 5
3. -2	8. 20	13. 13	18. -2
4. 22	9. -14	14. -7	19. 12
5. -9	10. 5	15. -3	20. -4

Ch. 1 · Subtracting Integers – Sheet C

1. 1	6. -6	11. 9	16. 3
2. 0	7. 14	12. -3	17. -8
3. -14	8. -4	13. -2	18. 6
4. 6	9. 20	14. 3	19. -14
5. -7	10. 11	15. 11	20. -1

Ch. 1 · Absolute Value – Sheet A

1. 20	5. 20	9. 0	13. 4
2. 18	6. 19	10. 15	14. 5
3. 17	7. 18	11. 10	15. 14
4. 1	8. 1	12. 10	16. 8

Ch. 1 · Absolute Value – Sheet B

1. 12	5. 4	9. 1	13. 7
2. 0	6. 10	10. 20	14. 19
3. 5	7. 13	11. 2	15. 13
4. 8	8. 6	12. 3	16. 8

Ch. 1 · Absolute Value – Sheet C

1. 14	5. 7	9. 19	13. 14
2. 2	6. 19	10. 2	14. 3
3. 16	7. 15	11. 6	15. 5
4. 12	8. 4	12. 10	16. 17

Ch. 2 · Equivalent Ratios – Sheet A

1. 49	4. 35	7. 24	10. 14
2. 45	5. 12	8. 18	11. 18
3. 16	6. 20	9. 70	12. 30

Ch. 2 · Equivalent Ratios – Sheet B

1. 56	4. 63	7. 18	10. 30
2. 6	5. 7	8. 6	11. 6
3. 30	6. 21	9. 35	12. 40

Ch. 2 · Equivalent Ratios – Sheet C

1. 35	4. 30	7. 48	10. 54
2. 24	5. 5	8. 36	11. 36
3. 35	6. 64	9. 16	12. 4

Ch. 2 · Unit Rates – Sheet A

1. \$8	3. \$5	5. \$9	7. \$7
2. \$8	4. \$2	6. \$5	8. \$7

Ch. 2 · Unit Rates – Sheet B

1. £4	3. £4	5. £3	7. £7
2. £2	4. £7	6. £4	8. £8

Ch. 2 · Unit Rates – Sheet C

1. €6	3. €7	5. €2	7. €6
2. €6	4. €3	6. €9	8. €9

Ch. 2 · Solving Proportions – Sheet A

1. 8	4. 10	7. 36	10. 16
2. 18	5. 12	8. 7	11. 4
3. 7	6. 9	9. 12	12. 20

Ch. 2 · Solving Proportions – Sheet B

1. 7	4. 2	7. 5	10. 48
2. 81	5. 5	8. 6	11. 16
3. 9	6. 12	9. 45	12. 3

Ch. 2 · Solving Proportions – Sheet C

1. 3	4. 5	7. 5	10. 8
2. 10	5. 20	8. 16	11. 24
3. 7	6. 4	9. 81	12. 35

Ch. 2 · Percent of a Number – Sheet A

1. 300	5. 50	9. 50	13. 40
2. 250	6. 10	10. 12	14. 150
3. 60	7. 30	11. 2	15. 16
4. 60	8. 25	12. 5	16. 10

Ch. 2 · Percent of a Number – Sheet B

1. 75	5. 40	9. 4	13. 20
2. 225	6. 40	10. 100	14. 15
3. 8	7. 30	11. 10	15. 150
4. 30	8. 375	12. 20	16. 200

Ch. 2 · Percent of a Number – Sheet C

1. 225	5. 16	9. 200	13. 250
2. 100	6. 80	10. 150	14. 80
3. 20	7. 15	11. 40	15. 375
4. 150	8. 4	12. 50	16. 40

Ch. 2 · Discount Word Problems – Sheet A

1. \$100	3. \$45	5. \$15	7. \$2
2. \$96	4. \$10	6. \$48	8. \$40

Ch. 2 · Discount Word Problems – Sheet B

1. £36	3. £4	5. £3	7. £16
2. £51	4. £120	6. £170	8. £108

Ch. 2 · Discount Word Problems – Sheet C

1. €15	3. €12	5. €3	7. €15
2. €180	4. €42	6. €12	8. €51

Ch. 3 · One-Step Equations: Multiplication and Division – Sheet A

1. 13	5. 14	9. 40	13. 12
2. 143	6. 66	10. 5	14. 72
3. 6	7. 15	11. 14	15. 2
4. 30	8. 105	12. 70	16. 99

Ch. 3 · One-Step Equations: Multiplication and Division – Sheet B

1. 10	5. 12	9. 15	13. 55
2. 75	6. 30	10. 7	14. 14
3. 36	7. 80	11. 91	15. 66
4. 28	8. 30	12. 8	16. 4

Ch. 3 · One-Step Equations: Multiplication and Division – Sheet C

1. 9	5. 63	9. 66	13. 49
2. 13	6. 13	10. 60	14. 12
3. 18	7. 12	11. 5	15. 2
4. 11	8. 180	12. 81	16. 10

Ch. 3 · Two-Step Equations – Sheet A

1. 10	4. 4	7. 4	10. 1
2. 7	5. 4	8. 3	11. 9
3. 11	6. 4	9. 10	12. 11

Ch. 3 · Two-Step Equations – Sheet B

1. 5	4. 11	7. 10	10. 10
2. 11	5. 12	8. 8	11. 1
3. 9	6. 11	9. 6	12. 7

Ch. 3 · Two-Step Equations – Sheet C

1. 5	4. 1	7. 4	10. 7
2. 11	5. 12	8. 7	11. 6
3. 6	6. 8	9. 11	12. 5

Ch. 3 · Squares and Square Roots – Sheet A

1. 144	5. 13	9. 2	13. 14
2. 10	6. 81	10. 15	14. 25
3. 4	7. 9	11. 7	
4. 6	8. 8	12. 11	

Ch. 3 · Squares and Square Roots – Sheet B

1. 4	5. 8	9. 10	13. 12
2. 13	6. 14	10. 7	14. 6
3. 121	7. 25	11. 2	
4. 9	8. 9	12. 15	

Ch. 3 · Squares and Square Roots – Sheet C

1. 15	5. 3	9. 12	13. 8
2. 9	6. 14	10. 169	14. 25
3. 49	7. 16	11. 11	
4. 6	8. 10	12. 2	