

Name _____

Review

1

Adding and Subtracting Whole Numbers

Find $543 + 286$.

Add ones.	Add tens. Regroup.	Add hundreds.
$\begin{array}{r} 543 \\ + 286 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ 543 \\ + 286 \\ \hline 29 \end{array}$	$\begin{array}{r} 1 \\ 543 \\ + 286 \\ \hline 829 \end{array}$

Find $649 - 162$.

Subtract ones.	Regroup. Subtract tens.	Subtract hundreds.
$\begin{array}{r} 649 \\ - 162 \\ \hline 7 \end{array}$	$\begin{array}{r} 514 \\ 649 \\ - 162 \\ \hline 87 \end{array}$	$\begin{array}{r} 514 \\ 649 \\ - 162 \\ \hline 487 \end{array}$

Find each sum or difference.

$$\begin{array}{r} 1 \\ 47 \\ + 154 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 413 \\ 653 \\ - 38 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 478 \\ + 631 \\ \hline \end{array}$$

$$\begin{array}{r} 562 \\ - 383 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ + 151 \\ \hline \end{array}$$

$$\begin{array}{r} 609 \\ + 371 \\ \hline \end{array}$$

$$\begin{array}{r} 843 \\ - 279 \\ \hline \end{array}$$

$$\begin{array}{r} 554 \\ - 464 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ - 44 \\ \hline \end{array}$$

$$\begin{array}{r} 283 \\ - 154 \\ \hline \end{array}$$

$$\begin{array}{r} 600 \\ - 321 \\ \hline \end{array}$$

$$\begin{array}{r} 419 \\ - 198 \\ \hline \end{array}$$

13. $8 + 577 + 3 =$ _____

14. $756 + 508 + 37 =$ _____

15. $379 + 298 + 619 =$ _____

16. $806 + 770 + 533 =$ _____

17. Brett has 136 baseball cards, 287 basketball cards, and 68 hockey cards. How many cards does he have in all? _____

Name _____

Review
2

Adding and Subtracting Decimals

Find $1.7 + 2.45$.

Find $36.57 - 4.6$.

<p style="margin: 0;"><i>Line up the decimal points.</i></p> $\begin{array}{r} \uparrow \quad \uparrow \\ 1.7 \quad 1.70 \rightarrow \text{Write zeros to} \\ + 2.45 \quad + 2.45 \quad \text{show place value.} \\ \hline 4.15 \\ \uparrow \text{ Place decimal point} \\ \text{in answer.} \end{array}$	<p style="margin: 0;"><i>Line up the decimal points.</i></p> $\begin{array}{r} \uparrow \quad \uparrow \quad \uparrow \\ 36.57 \quad 36.57 \quad \text{Write zeros to} \\ - 4.6 \quad - 4.60 \quad \text{show place value.} \\ \hline 31.97 \\ \uparrow \text{ Place decimal point} \\ \text{in answer.} \end{array}$
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Find each sum or difference.

1.
$$\begin{array}{r} \uparrow \\ 2.65 \\ + 13.30 \\ \hline \end{array}$$

2.
$$\begin{array}{r} \uparrow \\ 14.10 \\ - 3.05 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 744 \\ + 36.2 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 9 \\ - 0.6 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 8.97 \\ + 66 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 100 \\ - 0.22 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 6.8 \\ + 237.29 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 0.5 \\ - 0.23 \\ \hline \end{array}$$

9. $15.4 - 8 = \underline{\hspace{2cm}}$

10. $3 - 2.54 = \underline{\hspace{2cm}}$

11. $1.34 + 4.1 = \underline{\hspace{2cm}}$

12. $133.01 - 5.6 = \underline{\hspace{2cm}}$

13. $448 + 1.75 + 80.3 = \underline{\hspace{2cm}}$

14. $12.3 + 0.61 + 100 = \underline{\hspace{2cm}}$

15. On the 3-days of their vacation, the Davis family traveled 417 mi, 45.3 mi, and 366.9 mi. How far did they travel all together? _____

16. Etta bought a calculator for \$15. Glenn found the same model for \$9.79. How much more did Etta pay than Glenn did? _____



MULTIPLICATION MASTERY - 2'S



Date: _____

Name: _____

Score: _____ /25 %

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

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$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

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$$\begin{array}{r} 2 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$$

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$$\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$



MULTIPLICATION MASTERY - 3'S



Date: _____

Name: _____

Score: _____ /25 %

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

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$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

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$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

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$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$



MULTIPLICATION MASTERY - 4'S



Date: _____

Name: _____

Score: _____ /25 %

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

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$$\begin{array}{r} 4 \\ \times 11 \\ \hline \end{array}$$

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$$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$



MULTIPLICATION MASTERY - 5'S



Date: _____

Name: _____

Score: _____ /25 _____ %

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

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MULTIPLICATION MASTERY - 6'S



Date: _____

Name: _____

Score: _____ /25 96

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MULTIPLICATION MASTERY - 7'S



Date: _____

Name: _____

Score: _____ /25 %

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MULTIPLICATION MASTERY - 8'S



Date: _____

Name: _____

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MULTIPLICATION MASTERY - 9'S



Age: _____

Name: _____

Score: _____ /25 96

$$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$$

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$$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$$



MULTIPLICATION MASTERY - 10'S



Date: _____

Name: _____

Score: /25 95

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

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$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$



MULTIPLICATION MASTERY - 11'S



Date: _____

Name: _____

Score: _____ /25 %

11

X1

11

X3

11

X5

11

X7

11

X9

11

X2

11

X4

11

X6

11

X8

11

X10

11

X12

11

X11

11

X0

11

X6

11

X9

11

X11

11

X7

11

X5

11

X2

11

X3

11

X8

11

X4

11

X10

11

X0

11

X1



MULTIPLICATION MASTERY - 12'S



Date: _____

Name: _____

Score: /25 %

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$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$



All the Facts



Name: _____

No. Correct: _____

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$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

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$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

Name _____

Review

3

Multiplying Whole NumbersFind 124×32 .

Multiply ones.	Multiply tens.	Add the partial products.
$\begin{array}{r} 124 \\ \times 32 \\ \hline 248 \\ 3720 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 124 \\ \times 32 \\ \hline 248 \\ 3720 \\ \hline \end{array}$	$\begin{array}{r} 124 \\ \times 32 \\ \hline 248 \\ 3720 \\ \hline 3968 \end{array}$

Find each product.

$$\begin{array}{r} 1. \quad 38 \\ \times 17 \\ \hline 266 \\ 380 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 58 \\ \times 43 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 3. \quad 82 \\ \times 4 \end{array}$$

$$\begin{array}{r} 4. \quad 92 \\ \times 13 \end{array}$$

$$\begin{array}{r} 5. \quad 432 \\ \times 21 \end{array}$$

$$\begin{array}{r} 6. \quad 185 \\ \times 42 \end{array}$$

$$\begin{array}{r} 7. \quad 603 \\ \times 65 \end{array}$$

$$\begin{array}{r} 8. \quad 774 \\ \times 98 \end{array}$$

$$\begin{array}{r} 9. \quad 198 \\ \times 30 \end{array}$$

$$\begin{array}{r} 10. \quad 800 \\ \times 11 \end{array}$$

$$\begin{array}{r} 11. \quad 567 \\ \times 37 \end{array}$$

$$\begin{array}{r} 12. \quad 690 \\ \times 72 \end{array}$$

13. $55 \times 8 =$ _____

14. $40 \times 16 =$ _____

15. $4 \times 905 =$ _____

16. A delivery truck carried 144 color television sets. Each set weighed 34 lb. Write the weight of the entire shipment.

17. Joy ran 42 miles a week to train for the Boston Marathon. How many miles did she run after 12 weeks?

Name _____

Review
4

Multiplying with Decimals

Find 4.3×2.7 .

<p><i>Multiply as you would with whole numbers.</i></p> $\begin{array}{r} & & 2 \\ & & 4.3 \\ \times & 2.7 \\ \hline & 301 \\ & 860 \\ \hline 1161 \end{array}$	<p><i>Count the number of decimal places in both factors. The total is the number of decimal places in the product.</i></p> $\begin{array}{r} 4.3 \rightarrow 1 \text{ decimal place} \\ \times 2.7 \rightarrow + 1 \text{ decimal place} \\ \hline 11.61 \rightarrow 2 \text{ decimal places} \end{array}$
---	---

Find each product.

1. $\begin{array}{r} 14 \\ \times 8.8 \\ \hline 112 \\ \hline 1120 \end{array}$

2. $\begin{array}{r} 1.6 \\ \times 9 \\ \hline \end{array}$

3. $\begin{array}{r} 0.4 \\ \times 3.2 \\ \hline \end{array}$

4. $\begin{array}{r} 0.05 \\ \times 0.3 \\ \hline \end{array}$

5. $\begin{array}{r} 2.15 \\ \times 8.3 \\ \hline \end{array}$

6. $\begin{array}{r} 3.3 \\ \times 0.12 \\ \hline \end{array}$

7. $\begin{array}{r} 0.51 \\ \times 4.2 \\ \hline \end{array}$

8. $\begin{array}{r} 1.35 \\ \times 13 \\ \hline \end{array}$

9. $23 \times 0.47 = \underline{\hspace{2cm}}$ 10. $0.9 \times 5 = \underline{\hspace{2cm}}$ 11. $168 \times 2.25 = \underline{\hspace{2cm}}$

12. $0.8 \times 0.11 = \underline{\hspace{2cm}}$ 13. $20 \times 20.2 = \underline{\hspace{2cm}}$ 14. $4.9 \times 0.3 = \underline{\hspace{2cm}}$

15. A roll of paper towels contained 250 sheets. Each sheet was 8.75 inches long. How long was the roll? _____

16. Tania bought 3 new sweaters. Each sold for \$19.99. How much did she spend? _____

Name _____

Dividing Whole Numbers

Find $777 \div 37$.

$\begin{array}{r} 2 \\ 37 \overline{) 777} \\ \underline{74} \\ 37 \\ \underline{37} \\ 0 \end{array}$ <p>→ Think $40 \overline{) 800}$</p> <p>Try 2 in the tens place of the quotient.</p>	$\begin{array}{r} 21 \\ 37 \overline{) 777} \\ \underline{74} \\ 37 \\ \underline{37} \\ 0 \end{array}$ <p>Multiply 2×37. Subtract. Bring down 7 in ones place. Multiply 1×37. Subtract.</p>
--	--

Find each quotient.

1. $24 \overline{) 456}$

2	4

2. $8 \overline{) 528}$

3. $7 \overline{) 581}$

4. $4 \overline{) 904}$

5. $8 \overline{) 1,914}$

6. $26 \overline{) 910}$

7. $18 \overline{) 846}$

8. $46 \overline{) 1,610}$

9. $4,582 \div 79 =$ _____

10. $4,960 \div 60 =$ _____

11. $3,640 \div 91 =$ _____

12. $4,060 \div 28 =$ _____

13. $1,326 \div 13 =$ _____

14. $5,475 \div 15 =$ _____

15. Lynette scored 437 points in 23 basketball games.
Find the average number of points she scored per game.

Name _____

Review

7

Problem Solving: Analyze Word Problems

To improve his vocabulary, Damon learned 15 new words each week. How many words did he learn in 10 weeks?

Operation: He learned 15 words per week. There were 10 weeks. I will use multiplication.

Solution: $15 \times 10 = 150$
Damon learned 150 new words.

Write which operation you would use. Then solve.

1. For Class Day activities, the 594 students at West Side School were divided into 18-student teams. How many teams were there?

2. Dixie loaded a 387.5-lb piano, a 3.75-lb lamp, and a 59-lb desk into her pickup truck. What was the total weight in the pickup?

3. The \$198 bike that Ira wants is on sale for \$149.95. How much can he save by buying the bike on sale?

4. Taylor's 14-minute phone call cost \$9.40. How much did the call cost per minute?

5. At the fish store, Lamar bought a 1.2-lb flounder fillet. The price of the flounder was \$3.95 per lb. How much did the fillet cost?

Name _____


Review
8

Interpreting Data

The bar graph shows the lengths in miles of the Great Lakes. Lengths of bars represent lengths of lakes.

Which is the shortest Great Lake?

The shortest lake is Lake Ontario.

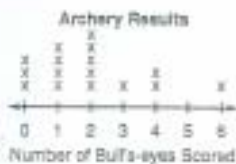


Lake	Length (mi)
Superior	350
Michigan	300
Erie	210
Huron	190
Ontario	130

Use the graphs to answer each question.

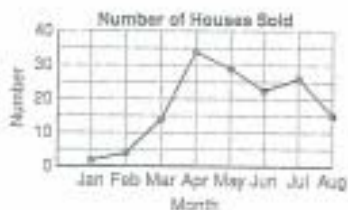
1. How many archers scored 4 bull's eyes?

2. What was the most common number of bull's-eyes scored?



3. In which month were the most houses sold?

4. In which month were about the same number sold as were sold in August?



5. Which grades raised about the same amount for the school book drive?

6. The school's goal was to raise \$1,500. About how much did they raise in all?



Name _____

Review

7

GCF and LCM

Find the GCF and LCM of 20 and 30.

Greatest Common Factor (GCF)	Least Common Multiple (LCM)
Factors of 20: 1, 2, 4, 5, 10, 20 Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30	Multiples of 20: 20, 40, 60, 80, 100, 120 Multiples of 30: 30, 60, 90, 120, 150
The common factors of 20 and 30 are 1, 2, 5, and 10. The greatest common factor is 10.	Common multiples of 20 and 30 are 60 and 120. The least common multiple is 60.

1. Find the GCF and LCM of 9 and 12.

Factors of 9: _____

Factors of 12: _____

GCF = _____

Multiples of 9: _____

Multiples of 12: _____

LCM = _____

Find the GCF and LCM of each pair of numbers.

2. 12 and 15

3. 14 and 28

4. 20 and 24

GCF = _____

GCF = _____

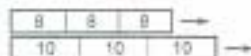
GCF = _____

LCM = _____

LCM = _____

LCM = _____








5. Steve stacked 8-ft and 10-ft boards along a wall. After how many feet will the boards first line up?



6. Ronnie has \$45. Beth has \$54. They each spent all their money at the CD sale at Sounds Great. If all CDs are the same price, what is the most each CD can cost?

Name _____

Lines and Angles

			
Parallel lines never cross.	Intersecting lines cross at one point.	Perpendicular lines intersect at 90° angles.	
			
A right angle has a measure of 90° .	A straight angle has a measure of 180° .	An acute angle has a measure less than 90° .	An obtuse angle has a measure greater than 90° but less than 180° .

Classify each pair of lines as being parallel, intersecting, or perpendicular.



Classify each angle as being right, straight, acute, or obtuse.





Adding and Subtracting Fractions with Like Denominators

Two fractions with the same denominator have **like denominators**.

When adding and subtracting fractions with like denominators, the denominator acts like a label, telling you what size pieces you are using. The numerators are the number of pieces you add or subtract.

Example 1

Simplify $\frac{5}{8} + \frac{1}{8}$.

Add numerators only.

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

Denominators do not change.

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

Write in lowest terms.

$$= \frac{3}{4}$$



So, $\frac{5}{8} + \frac{1}{8} = \frac{3}{4}$.

Try It Simplify. Draw a picture if you like. Write each answer in lowest terms.

a. $\frac{6}{10} + \frac{2}{10}$ _____

b. $\frac{1}{3} + \frac{1}{3}$ _____

c. $\frac{13}{20} + \frac{5}{20}$ _____

d. $\frac{5}{12} + \frac{1}{12}$ _____

e. $\frac{1}{9} + \frac{2}{9}$ _____

f. $\frac{1}{6} + \frac{1}{6}$ _____

g. $\frac{8}{9} + \frac{1}{9}$ _____

h. $\frac{7}{15} + \frac{2}{15}$ _____

Example 2

Simplify $\frac{9}{10} - \frac{3}{10}$.

Subtract numerators only.

$$\frac{9}{10} - \frac{3}{10} = \frac{9-3}{10}$$

Denominators do not change.

$$= \frac{6}{10}$$

Write in lowest terms.

$$= \frac{3}{5}$$



So, $\frac{9}{10} - \frac{3}{10} = \frac{3}{5}$.

Try It Simplify. Draw a picture if you like. Write each answer in lowest terms.

i. $\frac{8}{15} - \frac{5}{15}$ _____

j. $\frac{7}{8} - \frac{1}{8}$ _____

k. $\frac{4}{6} - \frac{2}{6}$ _____

l. $\frac{9}{7} - \frac{5}{7}$ _____

m. $\frac{3}{4} - \frac{1}{4}$ _____

n. $\frac{7}{10} - \frac{3}{10}$ _____

o. $\frac{10}{7} - \frac{4}{7}$ _____

p. $\frac{11}{12} - \frac{5}{12}$ _____

Name _____

**Review
10**

Adding and Subtracting Fractions

Find $\frac{2}{3} + \frac{1}{6}$.

Find $\frac{1}{4} - \frac{1}{5}$.

<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">3</td> <td style="border: 1px solid black; padding: 2px;">6</td> <td style="border: 1px solid black; padding: 2px;">9</td> <td style="border: 1px solid black; padding: 2px;">12</td> <td style="border: 1px solid black; padding: 2px;">15</td> <td style="padding-left: 10px;">Multiples of 3</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">6</td> <td style="border: 1px solid black; padding: 2px;">12</td> <td style="border: 1px solid black; padding: 2px;">18</td> <td style="border: 1px solid black; padding: 2px;">24</td> <td style="border: 1px solid black; padding: 2px;">30</td> <td style="padding-left: 10px;">Multiples of 6</td> </tr> </table> <p style="margin-top: 10px;">The least common denominator is 6.</p> <p>Write equivalent fractions. $\frac{2}{3} = \frac{4}{6}$</p> <p>Add. $\frac{1}{6} = \frac{1}{6}$</p> $\begin{array}{r} \frac{4}{6} \\ + \frac{1}{6} \\ \hline \frac{5}{6} \end{array}$	3	6	9	12	15	Multiples of 3	6	12	18	24	30	Multiples of 6	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">4</td> <td style="border: 1px solid black; padding: 2px;">8</td> <td style="border: 1px solid black; padding: 2px;">12</td> <td style="border: 1px solid black; padding: 2px;">16</td> <td style="border: 1px solid black; padding: 2px;">20</td> <td style="padding-left: 10px;">Multiples of 4</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">5</td> <td style="border: 1px solid black; padding: 2px;">10</td> <td style="border: 1px solid black; padding: 2px;">15</td> <td style="border: 1px solid black; padding: 2px;">20</td> <td style="border: 1px solid black; padding: 2px;">25</td> <td style="padding-left: 10px;">Multiples of 5</td> </tr> </table> <p style="margin-top: 10px;">The least common denominator is 20.</p> <p>Write equivalent fractions. $\frac{1}{4} = \frac{5}{20}$</p> <p>Subtract. $\frac{1}{5} = \frac{4}{20}$</p> $\begin{array}{r} \frac{5}{20} \\ - \frac{4}{20} \\ \hline \frac{1}{20} \end{array}$	4	8	12	16	20	Multiples of 4	5	10	15	20	25	Multiples of 5
3	6	9	12	15	Multiples of 3																				
6	12	18	24	30	Multiples of 6																				
4	8	12	16	20	Multiples of 4																				
5	10	15	20	25	Multiples of 5																				

Find each sum or difference.

1. $\frac{1}{4} + \frac{2}{3} =$ _____

4			
3			

2. $\frac{11}{12} - \frac{5}{6} =$ _____

12			
6			

3. $\frac{1}{3} + \frac{4}{9} =$ _____

4. $\frac{3}{7} + \frac{2}{7} =$ _____

5. $\frac{11}{12} - \frac{5}{12} =$ _____

6. $\frac{1}{2} + \frac{1}{3} =$ _____

7. $\frac{1}{3} - \frac{1}{5} =$ _____

8. $\frac{3}{8} - \frac{1}{8} =$ _____

9. $\frac{3}{5} + \frac{3}{10} =$ _____

10. $\frac{1}{2} + \frac{2}{5} =$ _____

11. $\frac{2}{3} - \frac{1}{4} =$ _____

12. Meg practiced the piano for $\frac{5}{12}$ hr. She did homework for $\frac{3}{4}$ hr. How much longer did she do homework than she practiced the piano? _____

Adding Mixed Numbers

Add $1\frac{2}{3} + 2\frac{1}{6}$.

Write equivalent fractions.	Add the fractions.	Add the whole numbers.
$\begin{array}{r} 1\frac{2}{3} = 1\frac{4}{6} \\ + 2\frac{1}{6} = 2\frac{1}{6} \\ \hline \end{array}$	$\begin{array}{r} 1\frac{2}{3} = 1\frac{4}{6} \\ + 2\frac{1}{6} = 2\frac{1}{6} \\ \hline 3\frac{5}{6} \end{array}$	$\begin{array}{r} 1\frac{2}{3} = 1\frac{4}{6} \\ + 2\frac{1}{6} = 2\frac{1}{6} \\ \hline 3\frac{5}{6} \end{array}$
The LCD of 3 and 6 is 6.		

Find each sum. Simplify.

1.
$$\begin{array}{r} 3\frac{1}{3} = 3\frac{5}{15} \\ + 2\frac{2}{5} = 2\frac{6}{15} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 2\frac{1}{3} = 2\frac{2}{6} \\ + 4\frac{1}{6} = 4\frac{1}{6} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 2\frac{1}{2} \\ + 3\frac{1}{2} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 6\frac{2}{5} \\ + 4\frac{1}{5} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 1\frac{2}{5} \\ + 1\frac{1}{5} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 6\frac{1}{4} \\ + 4\frac{3}{4} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 1\frac{1}{3} \\ + 5\frac{2}{3} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 2\frac{2}{4} \\ + 4\frac{1}{4} \\ \hline \end{array}$$

9. $6\frac{3}{5} + 2\frac{3}{4} = \underline{\hspace{2cm}}$

10. $1\frac{2}{7} + 2\frac{1}{3} = \underline{\hspace{2cm}}$

11. $5\frac{1}{4} + 3\frac{1}{3} = \underline{\hspace{2cm}}$

12. $1\frac{1}{2} + 5\frac{1}{5} = \underline{\hspace{2cm}}$

13. Marcus rode
- $5\frac{3}{10}$
- mi on his bike in the morning and
- $4\frac{4}{5}$
- mi in the afternoon. How far did he ride all together? _____

14. A storage box measuring
- $1\frac{1}{6}$
- ft in height was stacked atop a box
- $1\frac{3}{4}$
- ft in height. Find the total height of the two boxes. _____

Subtracting Mixed Numbers

Subtract $3\frac{2}{3} - 2\frac{1}{6}$.

Write equivalent fractions.	Subtract the fractions.	Subtract the whole numbers. Simplify.
$\begin{array}{r} 3\frac{2}{3} = 3\frac{4}{6} \\ - 2\frac{1}{6} = 2\frac{1}{6} \\ \hline \end{array}$	$\begin{array}{r} 3\frac{2}{3} = 3\frac{4}{6} \\ - 2\frac{1}{6} = 2\frac{1}{6} \\ \hline 1\frac{3}{6} \end{array}$	$\begin{array}{r} 3\frac{2}{3} = 3\frac{4}{6} \\ - 2\frac{1}{6} = 2\frac{1}{6} \\ \hline 1\frac{3}{6} = 1\frac{1}{2} \end{array}$
The LCD of 3 and 6 is 6.		

Find each difference. Simplify.

1.
$$\begin{array}{r} 3\frac{1}{3} = 3\frac{5}{15} \\ - 2\frac{1}{5} = 2\frac{3}{15} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 2\frac{1}{3} = 2\frac{2}{6} \\ - 1\frac{1}{6} = 1\frac{1}{6} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 3\frac{2}{3} \\ - 2\frac{1}{3} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 6\frac{6}{12} \\ - 2\frac{1}{12} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 3\frac{7}{10} \\ - 1\frac{1}{10} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7\frac{7}{8} \\ - 2\frac{3}{4} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 3\frac{3}{4} \\ - 2\frac{1}{4} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6\frac{6}{10} \\ - 1\frac{1}{10} \\ \hline \end{array}$$

9. $2\frac{2}{3} - 1\frac{1}{4} = \underline{\hspace{2cm}}$

10. $4\frac{3}{4} - 4\frac{3}{8} = \underline{\hspace{2cm}}$

11. $2\frac{1}{3} - 1\frac{2}{3} = \underline{\hspace{2cm}}$

12. $4\frac{4}{9} - 3\frac{3}{9} = \underline{\hspace{2cm}}$

13. $3\frac{3}{8} - 2\frac{5}{8} = \underline{\hspace{2cm}}$

14. $5\frac{1}{3} - 2\frac{5}{8} = \underline{\hspace{2cm}}$

15. Greg found two rocks for his collection. One weighed $4\frac{1}{4}$ lb and the other weighed $2\frac{7}{8}$ lb. Find the difference in weights. _____

Measurement

Customary Units of Measure

Length

- 1 foot (ft) = 12 inches (in.)
 1 yard (yd) = 36 in.
 = 3 ft
 1 mile (mi) = 5,280 ft
 = 1,760 yd

Weight

- 1 pound (lb) = 16 ounces (oz)
 1 ton (T) = 2,000 lb

Metric Units of Measure

Length

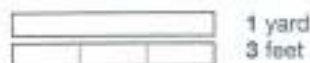
- 1 centimeter (cm) = 10 millimeters (mm)
 1 decimeter (dm) = 100 mm
 = 10 cm
 1 meter (m) = 1,000 mm
 = 100 cm
 = 10 dm
 1 kilometer (km) = 1,000 m

Mass

- 1 gram (g) = 1,000 milligrams (mg)
 1 kilogram (kg) = 1,000 g
 1 metric ton (t) = 1,000 kg

Complete: 12 ft = ? yd

Think: A yard is **bigger** than a foot.
 I should divide: $12 \div 3 = 4$.



So, 12 ft = 4 yd.

1. Complete: 9 ft = ? in.

Think: An inch is _____ than a foot.



So, 9 ft = _____ in.

Complete.

2. 80 oz = _____ lb

3. 3 m = _____ cm

4. 18 in. = _____ yd

5. 0.1 kg = _____ g

6. 20 T = _____ lb

7. 5 km = _____ m

8. 1.5 mi = _____ yd

9. 6.5 lb = _____ oz

10. 43 dm = _____ mm

11. 25 g = _____ mg

12. 20 in. = _____ ft

13. 6,700 mm = _____ m

14. A notice on a laboratory scale read, "Not for weights greater than 50 oz." Yin had a sample weighing 3.2 lb. Is the sample too heavy for the scale? _____

Name _____

**Review
16**

Perimeter

Perimeter is the distance around a shape.

You can add sides or multiply to find the perimeter of a rectangle.



$$p = 25 \text{ in.} + 9 \text{ in.} + 25 \text{ in.} + 9 \text{ in.} = 68 \text{ in.}$$

$$\text{or } p = 2 \times (25 \text{ in.} + 9 \text{ in.}) = 68 \text{ in.}$$

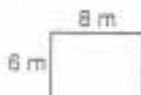
If only one side of a figure is given, then all sides have the same length.



$$p = 5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = 20 \text{ cm}$$

$$\text{or } p = 4 \times 5 \text{ cm} = 20 \text{ cm}$$

1. Find the perimeter of the rectangle.



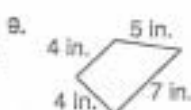
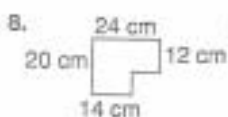
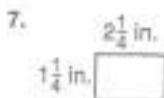
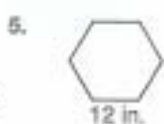
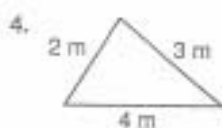
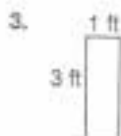
$$p = _ + _ + _ + _ = _ \text{ m}$$

2. Find the perimeter of the square.



$$p = _ \times _ = _ \text{ in.}$$

Find the perimeter of each figure.

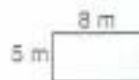


11. A flower garden is in the shape of an equilateral triangle. Each side measures $15\frac{3}{8}$ ft. What is the garden's perimeter? _____

Area

Area is the number of square units needed to cover a shape.

Find the area of the rectangle.



$$\begin{aligned}\text{Area} &= \text{length} \times \text{width} \\ &= 8 \text{ m} \times 5 \text{ m} \\ &= 40 \text{ m}^2\end{aligned}$$

Find the area of the triangle.



$$\begin{aligned}\text{Area} &= \frac{1}{2} \times \text{base} \times \text{height} \\ &= \frac{1}{2} \times 6 \times 4 \\ &= 12 \text{ cm}^2\end{aligned}$$

1. Find the area of the rectangle.

9 in.



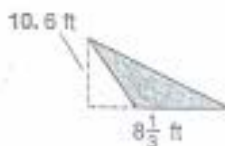
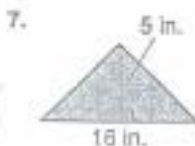
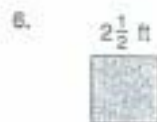
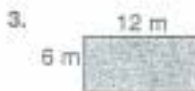
$$\begin{aligned}\text{Area} &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \\ &= \underline{\hspace{1cm}}\end{aligned}$$

2. Find the area of the triangle.



$$\begin{aligned}\text{Area} &= \frac{1}{2} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \\ &= \underline{\hspace{1cm}}\end{aligned}$$

Find the area of each figure.



11. A rectangular park measures 300 yd by 250 yd.
What is the area of the park?

Name _____

Review
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Probability

What is the probability of spinning an A?

$\frac{2}{4}$ → number of As
 $\frac{1}{4}$ → total possible outcomes

The probability is $\frac{2}{4}$ or $\frac{1}{2}$.



What is the probability of spinning a B?

$\frac{1}{4}$ → number of Bs
 $\frac{1}{4}$ → total possible outcomes

The probability is $\frac{1}{4}$.

Complete.

1. What is the probability of spinning a 1?

→ number of 1s
 → total possible outcomes



The probability is _____.

2. What is the probability of spinning a 3?

→ number of 3s
 → total possible outcomes

The probability is _____.

Give the probability of each outcome.



3. spinning an N _____

4. spinning an S _____

5. spinning an S or G _____

6. spinning an S, G, or N _____

A number cube has 6 sides numbered 1, 2, 3, 4, 5, and 6. Find each probability.

7. rolling a 3 _____

8. rolling an even number _____

9. rolling 3, 4, 5, or 6 _____

10. rolling anything but 1 _____

11. A hat contains 26 cards, each printed with a different letter of the alphabet. What is the probability that you will pick a vowel (A, E, I, O, U, or Y)? _____

12. There are 6 blue socks, 7 white socks, and 8 gray socks in a drawer. If you pick a sock without looking, what is the probability that it will be blue? _____

Name _____

Review
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Problem Solving: Analyze Strategies

A computer store has 25 printers and computers. There are 7 more printers than computers. How many of each are there?


	Printers	Computers	Check
Guess 1	20	5	$20 - 5 = 1$
Guess 2	14	11	$14 - 11 = 3$
Guess 3	16	9	$16 - 9 = 7\checkmark$

Solution: There are 16 printers and 9 computers.

Problem Solving Strategies

- Use Objects/Act it Out
- Draw a Picture
- Look For a Pattern
- Guess and Check
- Make an Organized List
- Make a Table
- Solve a Simpler Problem
- Work Backward

Use any strategy to solve.

1. At the veterinarian's office, Terri learned that her dog weighed 4 times as much as her cat. Together the pets weighed 40 lbs. How much did the dog weigh? _____
2. Yasmin arrived home from play practice at 4:25 P.M. The walk home took 15 minutes. Practice began 20 minutes after the final bell and lasted for a half hour. When did school end? _____
3. Vanessa, Diego, Rose and Randy stood in line for lunch. Rose was just behind Vanessa. Diego was not next to Rose or Randy. Write the line order. _____
4. Students played dodge ball and volleyball for 45 minutes. They played dodge ball for 11 more minutes than they played volleyball. How long did they play dodge ball? _____
5. Mr. Jones has 4 shirts, 2 ties, and 3 pair of pants. How many days in a row can he wear a different outfit?  _____

