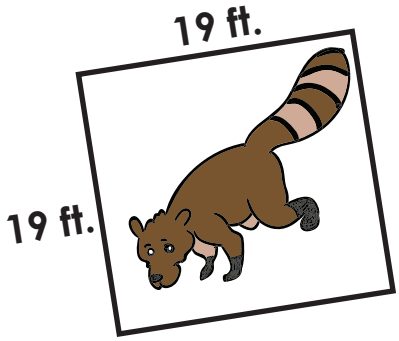
Rising Fifth Grade Math Summer Learning Packet

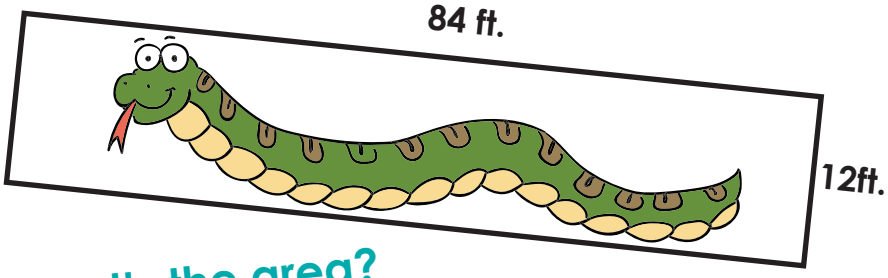
Name: _____

Get Ready for

Fifth Grade Math

5th Grade





What's the area?

108 inches = ____?____ feet

144 inches = ____?____ yards

10 yards = ____?____ feet

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Summer Learning

Place Value Scramble

Name:_____ Date:_____

Using the numbers in the number bank, create different six-digit numbers based on each of the place value clues below.

Number Bank

6 3 5 9 4 1

1. What is the smallest six-digit number you can make?

___ ___ ___, ___ ___ ___

2. What is the largest six-digit number you can make?

___ ___ ___, ___ ___ ___

3. What is the smallest six-digit number you can make that has 4 in the tens place?

___ ___ ___, ___ ___ ___

4. What is the largest six-digit number you can make that has 1 in the thousands place?

___ ___ ___, ___ ___ ___

5. What is the smallest six-digit number you can make that is divisible by five?

___ ___ ___, ___ ___ ___

6. What is the largest six-digit number you can make that ends in an even number?

___ ___ ___, ___ ___ ___

7. Use the number you wrote in problem 6 to answer the following questions.

a. Circle the digit in the ten thousands place.

b. Write the number in expanded form.

_____

Beachy Word Problems

Name:_____ Date:_____

Solve the word problems. Be sure to show your work.

1. Peter and Prunella were collecting seashells on the beach. They found 193 sand dollars, 284 mussel shells, and 367 oyster shells. When they got home, they discovered that 54 sand dollars, 106 mussel shells, and 139 oyster shells were broken. How many of the shells were unbroken?

2. Prunella gathered 5 baskets of shells. Each basket contained 50 shells. She gave 48 shells to Peter, 19 shells to her mother, and 72 shells to her cousin, Petunia. How many shells did Prunella have left?

3. Last week, Peter found 241 sand dollars, 106 sea snail shells, and 82 mini conch shells. This week, he found 165 sand dollars, 319 sea snail shells, and 24 mini conch shells. During which week did Peter find more shells? How many more?

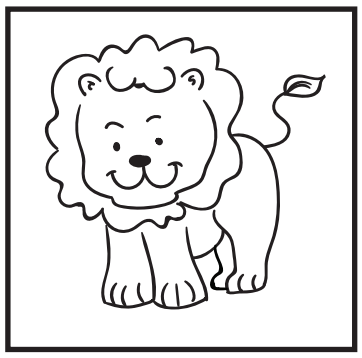
4. On Saturday morning, Peter and Prunella arrived at the annual beach clean up event at 9:00. They spent 53 minutes picking up trash and 27 minutes raking sand. If the event ends at 10:30, how many minutes do they have left to make signs that read “keep our beach clean”?

Calculating Area at the Zoo

Name:_____ Date:_____

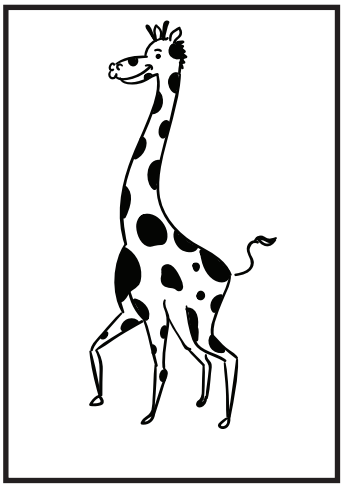
Find the area of each animal enclosure at the zoo. **Remember:** Area= Length x Width

53 ft.



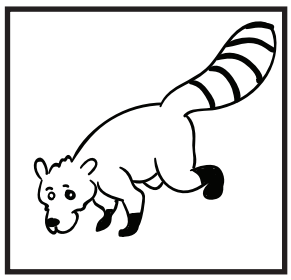
38 ft.

24 ft.

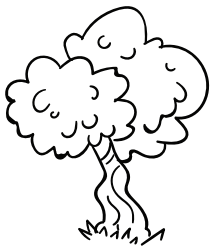


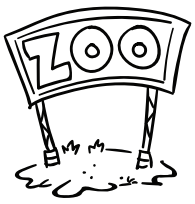
97 ft.

19 ft.

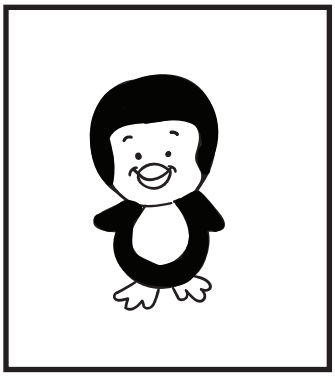


19 ft.



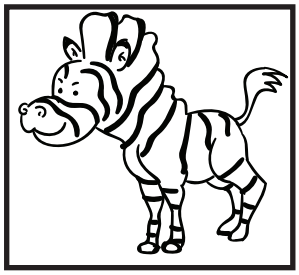


16 ft.



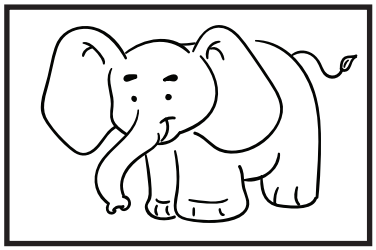
59 ft.

31 ft.



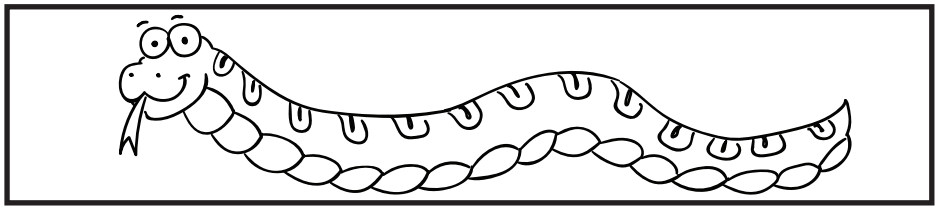
31 ft.

72 ft.



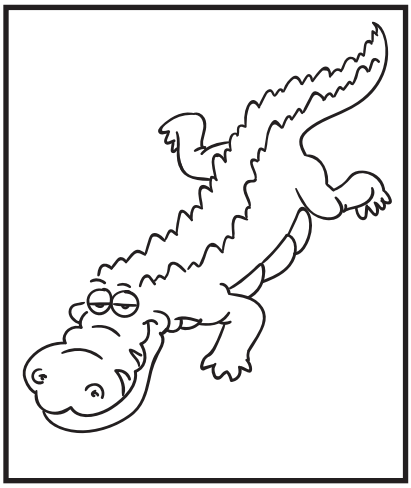
47 ft.

84 ft.



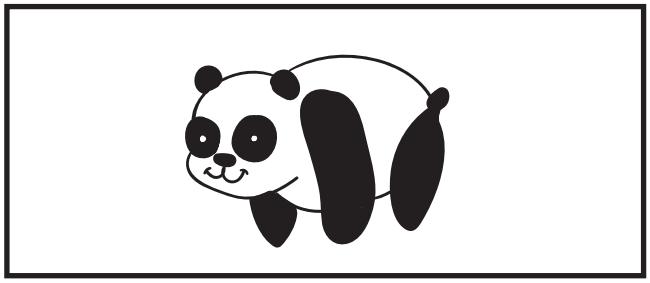
12ft.

25 ft.



65 ft.

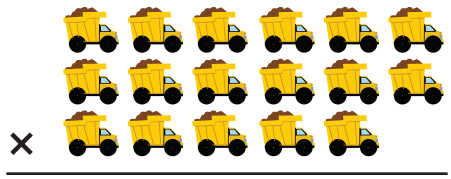
29 ft.



26 ft.

Multiply Two and Three-Digit Factors

Name:_____ Date:_____



$$\begin{array}{r} 324 \\ \times \\ \hline 5508 \end{array}$$

Multiply, regroup if needed.

Example:

$$\begin{array}{r} 324 \\ \times\ 17 \\ \hline 2268 \\ +\ 3240 \\ \hline 5508 \end{array}$$

A

118 × 24	97 × 45	32 × 61	13 × 50

B

519 × 23	678 × 12	403 × 39	981 × 42

C

704 × 32	592 × 244	863 × 305	199 × 671

Division Riddle

Name:_____ Date:_____

Solve each division problem. Then use the remainders for each problem to solve the riddle.

Hint: You will not use all the letters to solve the riddle.

What goes up and doesn't go back down?

Example:

$$\begin{array}{r} 170\ r2 \\ 3\overline{)\,512} \\ -\ 3 \\ \hline 21 \\ -21 \\ \hline 02 \end{array}$$

G $7\overline{)410}$	**B** $8\overline{)839}$	**R** $3\overline{)1551}$
0 $5\overline{)671}$	**Y** $6\overline{)3299}$	**U** $9\overline{)258}$
N $9\overline{)341}$	**E** $8\overline{)594}$	**A** $4\overline{)1239}$

What goes up and doesn't go back down?

_____	_____	_____	_____	_____	_____	_____
5	1	6	0	3	4	2

Which Numbers are Prime?

Name:_____ Date:_____

Circle the prime numbers and add them together. Remember: A prime number is a number that is divisible only by one and itself.

17 21 13 7 1 3
5 9 11 14 18 2 17

TOTAL ____
Is the total a prime number? _____

Solve the equations and circle the answers that are prime.

1 14 + 5	2 6 x 7	3 30 ÷ 2
4 37 - 28	5 54 ÷ 9	6 8 + 19
7 12 x 4	8 11 + 56	9 25 - 8
10 49 ÷ 7	11 19 x 3	12 102 - 5
10 15 + 23	11 60 - 17	12 128 ÷ 4

Sugar Coated Fractions

Name:_____ Date:_____

Fractions are everywhere, even in candy! Write a fraction that shows the ratio of colored candy for each problem, then simplify the fraction. Be sure to show your work.

Gumdrops

12 red gumdrops

Example: $\frac{\text{red gumdrops}}{\text{total number gumdrops}} = \frac{12}{36} \div \frac{12}{12} = \frac{1}{3}$

Divide by a common factor to simplify

15 blue gumdrops

_____

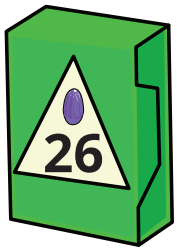
24 yellow gumdrops

_____

Sour Chews

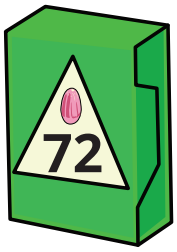
7 green sour chews

_____



8 purple sour chews

_____



18 pink sour chews

_____

16 orange sour chews

_____

Lollipops

13 yellow lollipops

_____

21 red lollipops

_____

10 green lollipops

_____

26 purple lollipops

_____

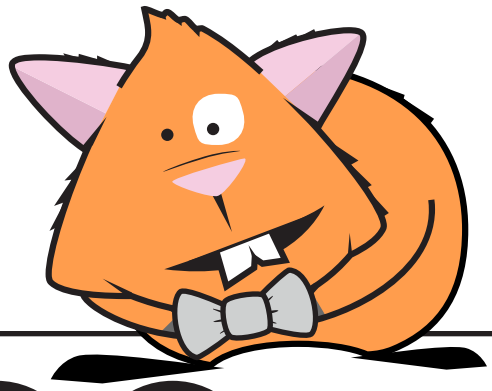
Activity: With your own favorite colorful candy, find the fractions of each color in the bag.

Feed The Kramsters! Review

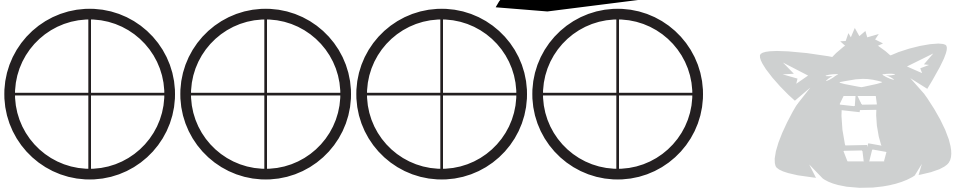
Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

EXAMPLE:

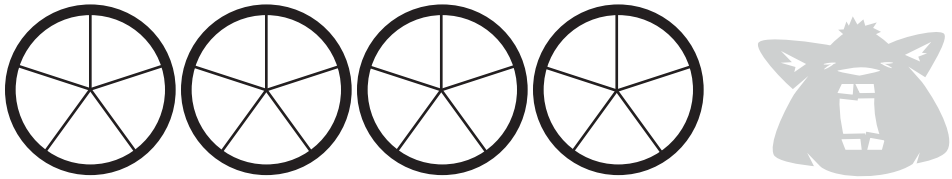
$\frac{10}{3}$ → $3\frac{1}{3}$



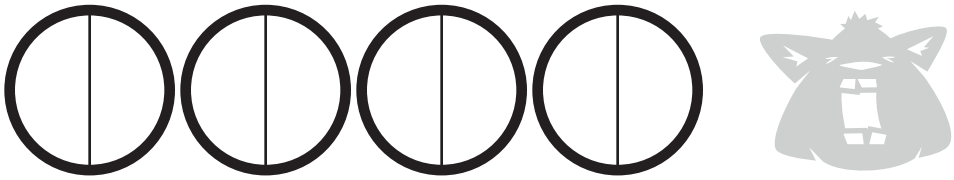
$\frac{15}{4}$



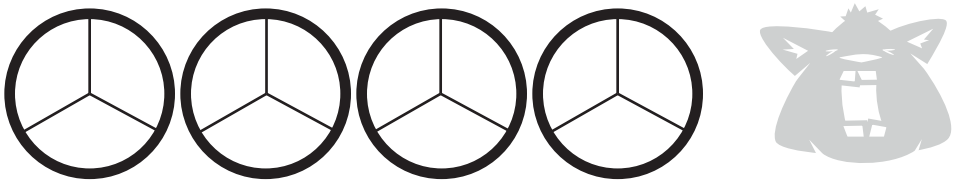
$\frac{12}{5}$



$\frac{7}{2}$

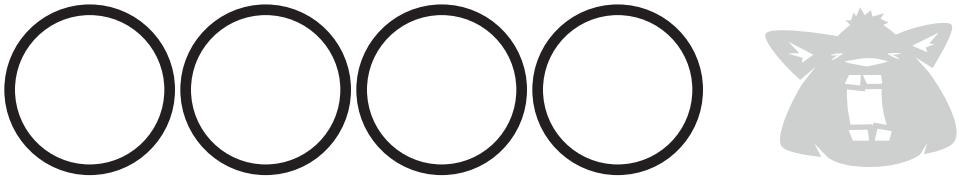


$\frac{6}{3}$



For the last one, shade in the pellets using your own outlines.

$\frac{9}{4}$



Show Me the Money

Name:_____ Date:_____

.10 = $\frac{1}{10}$ = one tenth .01 = $\frac{1}{100}$ = one hundredth

64¢ or $0.64 = $\frac{6}{10} + \frac{4}{100}$ or six tenths plus four hundredths of a dollar

$2.05 = two dollars plus $\frac{5}{100}$ or five hundreths of a dollar

Write each value in decimal form.

1. Five tenths plus three hundredths of a dollar **$0.53**

2. Three dollars plus seventy two hundredths _____

3. $\frac{4}{10} + \frac{9}{100}$ of a dollar _____

4. Eight tenths plus five hundredths of a dollar _____

5. Six hundredths of a dollar _____

6. Four dollars plus nine tenths of a dollar _____

7. Ten dollars plus $\frac{1}{10}$ of a dollar _____

8. Five tenths of a dollar _____

9. Two dollars plus three tenths of a dollar _____

10. Twelve dollars plus $\frac{2}{100}$ of a dollar _____

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Yards, Feet, and Inches

Name:_____ Date:_____

Complete the table by converting inches, feet and yards.
HINT: 12 inches(in.) is equal to 1 foot(ft.), 3 feet is equal to 1 yard (yd.)

	2 yards	**3 yards**		**5 yards**
3 feet			**12 feet**	
	72 inches		**144 inches**	

Convert the following linear measurements.

1) 1 yard = _____ inches

2) 108 inches = _____ feet

3) 15 feet = _____ yards

4) 8 feet = _____ inches

5) 144 inches = _____ yards

6) 6 yards = _____ feet

7) 108 inches = _____ yards

8) 10 yards = _____ feet

9) 60 feet = _____ yards

10) 10 feet = _____ inches

11) 7 yards = _____ feet

12) 96 inches = _____ feet

Use the conversion table to solve the word problems.

13) Joey is trying out for the football team at school. He tells the coach that he can throw a ball 36 feet, but his coach reminds Joey that the field is measured in yards. How many yards can Joey throw the ball?

14) Marianne is rearranging her room. Each wall in her room is 12 feet long. Her desk measures 36 inches, her bed is 72 inches, and her bookshelf is 24 inches. If she places them all along the same wall, how much of the wall will remain uncovered, in feet?

*Bonus Activity: Use a measuring tape or yardstick to measure things around your house. Can you find anything that is longer than 3 yards?

Sunny Day Decimals: Round and Compare

Name:_____ Date:_____

Use the greater than, less than, and equal to symbols (>, <, =) to compare each set of decimals.

1. 0.419 [>] 0.402
2. 62.03 [ ] 63.03
3. 0.725 [ ] 7.025
4. 55.90 [ ] 55.9
5. 483.06 [ ] 483.08
6. 37.25 [ ] 37.2
7. 21.91 [ ] 21.19
8. 6.40 [ ] 6.400

Round each decimal to the given place.

1. round 34.934 to the nearest hundredth _____34.93_____
2. round 607.5 to the nearest whole number _____
3. round 3.106 to the nearest hundredth _____
4. round 26.829 to the nearest tenth _____
5. round 5.734 to the nearest whole number _____
6. round 468.113 to the nearest tenth _____

The Super Powers of Ten

Name:_____ Date:_____

Powers of ten are numbers that are divisible by 10.
Review the examples below, then solve the problems.

To multiply a whole number by a power of ten, count the number of zeros after the 1 and add the same number or zeros (or place values) to the end of the whole number you are multiplying.

52 x 10 = 520
37 x 100 = 3,700
4 x 1,000 = 4,000

0.52 x 10 = 5.2
0.37 x 100 = 37
0.048 x 1,000 = 48

To multiply a decimal by a power of ten, move the decimal point one place to the RIGHT for each zero after the 1.

Multiply by the power of ten.

1) 0.45 x 10 = _____

2) 81 x 1,000 = _____

3) 0.216 x 100 = _____

4) 1.07 x 100 = _____

5) 973 x 10 = _____

6) 0.75 x 10,000 = _____

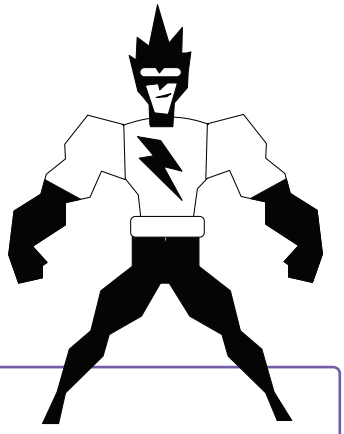
7) 63 x 1,000 = _____

8) 0.059 x 10 = _____

9) 1,048 x 100 = _____

1.6 ÷ 10 = 0.16
520 ÷ 10 = 52
37 ÷ 100 = 0.37
48 ÷ 1,000 = 0.048

To divide a number by a power of ten, move the decimal point LEFT as many places as there are zeros in power of ten. If there are not enough digits in the number you are dividing, you may add zeros.



Divide by the power of ten.

10) 1.27 ÷ 10 = _____

11) 3,948 ÷ 100 = _____

12) 56 ÷ 1,000 = _____

13) 8 ÷ 10 = _____

14) 470.1 ÷ 100 = _____

15) 2.35 ÷ 1,000 = _____

Answer Sheet

Place Value Scramble

Name:_____ Date:_____

Using the numbers in the number bank, create different six-digit numbers based on each of the place value clues below.

Number Bank

6 3 5 9 4 1

ANSWERS

1. What is the smallest six-digit number you can make?

1 3 4 , 5 6 9

2. What is the largest six-digit number you can make?

9 6 5 , 4 3 1

3. What is the smallest six-digit number you can make that has 4 in the tens place?

1 3 5 , 6 4 9

4. What is the largest six-digit number you can make that has 1 in the thousands place?

9 6 1 , 5 4 3

5. What is the smallest six-digit number you can make that is divisible by five?

1 3 4 , 6 9 5

6. What is the largest six-digit number you can make that ends in an even number?

9 6 5 , 3 1 4

7. Use the number you wrote in problem 6 to answer the following questions.

a. Circle the digit in the ten thousands place.

b. Write the number in expanded form.

965,314 **900,000 + 60,000 + 5,000 + 300 + 10 + 4**

Answer Sheet

Beachy Word Problems

Name:_____ Date:_____

Solve the word problems. Be sure to show your work.

ANSWERS

1. Peter and Prunella were collecting seashells on the beach. They found 193 sand dollars, 284 mussel shells, and 367 oyster shells. When they got home, they discovered that 54 sand dollars, 106 mussel shells, and 139 oyster shells were broken. How many of the shells were unbroken?

545 shells were unbroken

2. Prunella gathered 5 baskets of shells. Each basket contained 50 shells. She gave 48 shells to Peter, 19 shells to her mother, and 72 shells to her cousin, Petunia. How many shells did Prunella have left?

111 shells left

3. Last week, Peter found 241 sand dollars, 106 sea snail shells, and 82 mini conch shells. This week, he found 165 sand dollars, 319 sea snail shells, and 24 mini conch shells. During which week did Peter find more shells? How many more?

He found 79 more shells this week

4. On Saturday morning, Peter and Prunella arrived at the annual beach clean up event at 9:00. They spent 53 minutes picking up trash and 27 minutes raking sand. If the event ends at 10:30, how many minutes do they have left to make signs that read “keep our beach clean”?

10 minutes

Answer Sheet

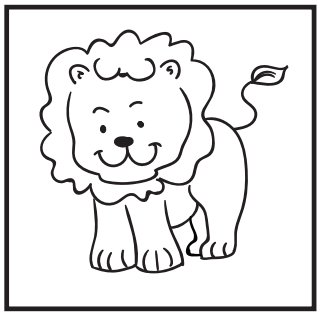
Calculating Area at the Zoo

Name:_____ Date:_____

Find the area of each animal enclosure at the zoo. **Remember:** Area= Length x Width

ANSWERS

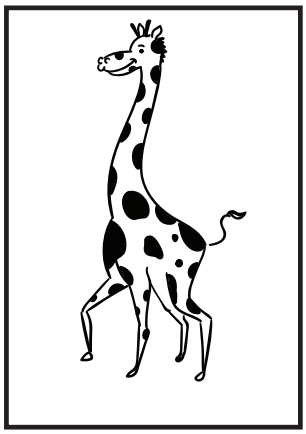
53 ft.



38 ft.

A= 2,014 square ft.

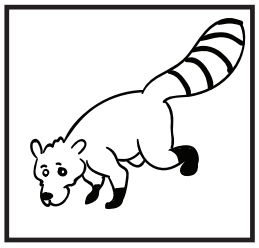
24 ft.



97 ft.

A= 2,328 square ft.

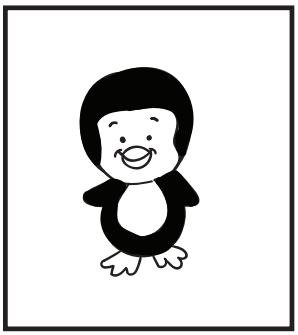
19 ft.



19 ft.

A= 361 square ft.

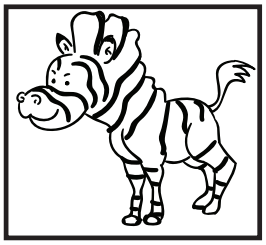
16 ft.



59 ft.

A= 944 square ft.

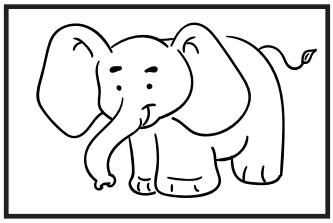
31 ft.



31 ft.

A= 961 square ft.

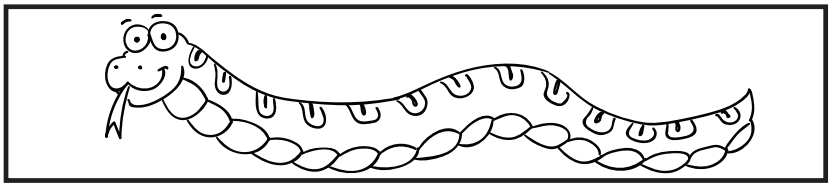
72 ft.



47 ft.

A= 3,384 square ft.

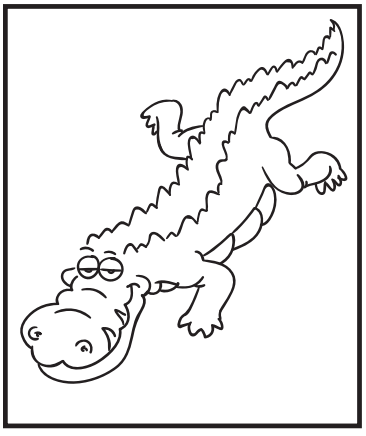
84 ft.



12ft.

A= 1,008 square ft.

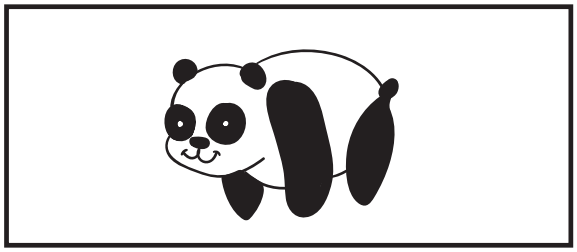
25 ft.



65 ft.

A= 1,625 square ft.

29 ft.



26 ft.

A= 754 square ft.

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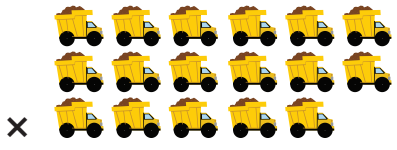
Answer Sheet

Multiply Two and Three-Digit Factors

Name:_____ Date:_____



$$\begin{array}{r} 324 \\ \times \quad 17 \\ \hline 2268 \\ +\ 3240 \\ \hline 5{,}508 \end{array}$$

Multiply, regroup if needed.

Example:

$$\begin{array}{r} 324 \\ \times \quad 17 \\ \hline 2268 \\ +\ 3240 \\ \hline 5{,}508 \end{array}$$

A ANSWERS

$\begin{array}{r} 118 \\ \times \quad 24 \\ \hline \end{array}$ =2,832	$\begin{array}{r} 97 \\ \times \quad 45 \\ \hline \end{array}$ =4,365	$\begin{array}{r} 32 \\ \times \quad 61 \\ \hline \end{array}$ =1,952	$\begin{array}{r} 13 \\ \times \quad 50 \\ \hline \end{array}$ =650

B

$\begin{array}{r} 519 \\ \times \quad 23 \\ \hline \end{array}$ =11,937	$\begin{array}{r} 678 \\ \times \quad 12 \\ \hline \end{array}$ =8,136	$\begin{array}{r} 403 \\ \times \quad 39 \\ \hline \end{array}$ =15,717	$\begin{array}{r} 981 \\ \times \quad 42 \\ \hline \end{array}$ =41,202

C

$\begin{array}{r} 704 \\ \times \quad 32 \\ \hline \end{array}$ = 22,528	$\begin{array}{r} 592 \\ \times \quad 244 \\ \hline \end{array}$ =144,448	$\begin{array}{r} 863 \\ \times \quad 305 \\ \hline \end{array}$ =263,215	$\begin{array}{r} 199 \\ \times \quad 671 \\ \hline \end{array}$ =133,529

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Answer Sheet

Division Riddle

Name:_____ Date:_____

Solve each division problem. Then use the remainders for each problem to solve the riddle.

Hint: You will not use all the letters to solve the riddle.

What goes up and doesn't go back down?

Example:

$$3\overline{)512} = 170\ r2$$

$$\begin{array}{r} -\ 3 \\ \hline 21 \\ -21 \\ \hline 02 \end{array}$$

G ANSWERS $7\overline{)410} = 58\ r4$	B $8\overline{)839} = 104\ r7$	R $3\overline{)1551} = 517$ (No Remainder)
0 $5\overline{)671} = 134\ r1$	Y $6\overline{)3299} = 549\ r5$	U $9\overline{)258} = 28\ r6$
N $9\overline{)341} = 37\ r8$	E $8\overline{)594} = 74\ r2$	A $4\overline{)1239} = 309\ r3$

What goes up and doesn't go back down?

Y	O	U	R		A	G	E
5	1	6	0		3	4	2

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Answer Sheet

Which Numbers are Prime?

Name:_____ Date:_____

Circle the prime numbers and add them together. Remember: A prime number is a number that is divisible only by one and itself.

17 21 13 7 1 3 5 9 11 14 18 2 17

TOTAL 41

Is the total a prime number? Yes

Solve the equations and circle the answers that are prime.

1 ANSWERS 14 + 5 =19	2 6 x 7 =42	3 30 ÷ 2 =15
4 37 - 28 =9	5 54 ÷ 9 =6	6 8 + 19 =27
7 12 x 4 =48	8 11 + 56 =67	9 25 - 8 =17
10 49 ÷ 7 =7	11 19 x 3 =57	12 102 - 5 =97
10 15 + 23 =38	11 60 - 17 =43	12 128 ÷ 4 =32

Answer Sheet

Sugar Coated Fractions

Name:_____ Date:_____

Fractions are everywhere, even in candy! Write a fraction that shows the ratio of colored candy for each problem, then simplify the fraction. Be sure to show your work.

Gumdrops

12 red gumdrops

Example: $\frac{\text{red gumdrops}}{\text{total number gumdrops}} = \frac{12}{36} \div \frac{12}{12} = \frac{1}{3}$

Divide by a common factor to simplify

ANSWERS

15 blue gumdrops

$\frac{1}{4}$

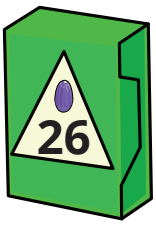
24 yellow gumdrops

$\frac{3}{7}$

Sour Chews

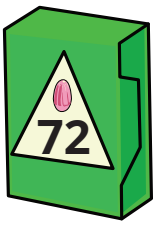
7 green sour chews

$\frac{1}{6}$



8 purple sour chews

$\frac{4}{13}$



18 pink sour chews

$\frac{1}{4}$

16 orange sour chews

$\frac{4}{21}$

Lollipops

13 yellow lollipops

$\frac{1}{5}$

21 red lollipops

$\frac{3}{7}$

10 green lollipops

$\frac{2}{7}$

26 purple lollipops

$\frac{1}{2}$

Activity: With your own favorite colorful candy, find the fractions of each color in the bag.

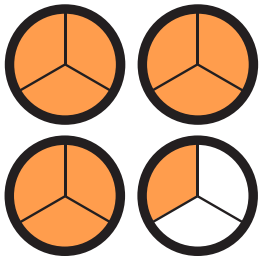
Answer Sheet

Feed The Kramsters! Review

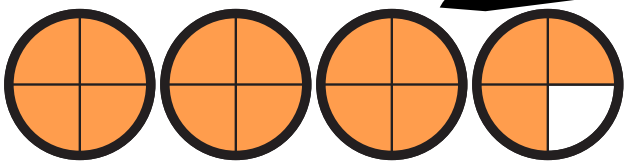
Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

EXAMPLE:

$\frac{10}{3}$ → $3\frac{1}{3}$

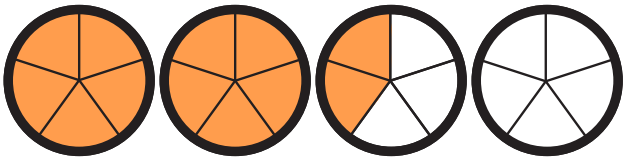


$\frac{15}{4}$



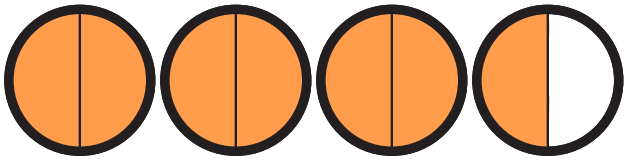
$3\frac{3}{4}$

$\frac{12}{5}$



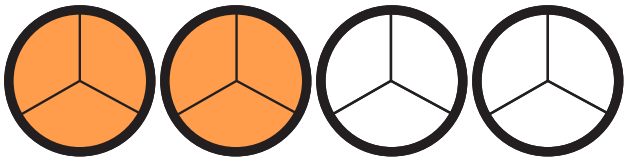
$2\frac{2}{5}$

$\frac{7}{2}$



$3\frac{1}{2}$

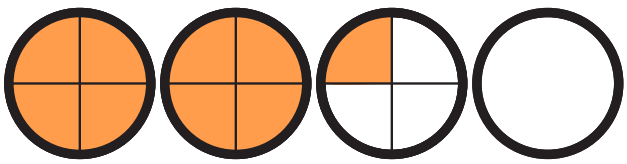
$\frac{6}{3}$



2

For the last one, shade in the pellets using your own outlines.

$\frac{9}{4}$



$2\frac{1}{4}$

Answer Sheet

Show Me the Money

Name:_____ Date:_____

.10 = $\frac{1}{10}$ = one tenth .01 = $\frac{1}{100}$ = one hundredth

64¢ or $0.64 = $\frac{6}{10} + \frac{4}{100}$ or six tenths plus four hundredths of a dollar

$2.05 = two dollars plus $\frac{5}{100}$ or five hundreths of a dollar

Write each value in decimal form.

ANSWERS

1. Five tenths plus three hundredths of a dollar **$0.53**

2. Three dollars plus seventy two hundredths **$3.72**

3. $\frac{4}{10} + \frac{9}{100}$ of a dollar **$0.49**

4. Eight tenths plus five hundredths of a dollar **$0.85**

5. Six hundredths of a dollar **$0.06**

6. Four dollars plus nine tenths of a dollar **$4.90**

7. Ten dollars plus $\frac{1}{10}$ of a dollar **$10.10**

8. Five tenths of a dollar **$0.50**

9. Two dollars plus three tenths of a dollar **$2.30**

10. Twelve dollars plus $\frac{2}{100}$ of a dollar **$12.02**

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Answer Sheet

Yards, Feet, and Inches

Name:_____ Date:_____

Complete the table by converting inches, feet and yards.
HINT: 12 inches (in.) is equal to 1 foot (ft.), 3 feet is equal to 1 yard (yd.)

1 yard	2 yards	3 yards	4 yards	5 yards
3 feet	6 feet	9 feet	12 feet	15 feet
36 inches	72 inches	108 inches	144 inches	180 inches

ANSWERS

Convert the following linear measurements.

1) 1 yard = 36 inches
2) 108 inches = 9 feet
3) 15 feet = 5 yards
4) 8 feet = 96 inches
5) 144 inches = 4 yards
6) 6 yards = 18 feet
7) 108 inches = 3 yards
8) 10 yards = 30 feet
9) 60 feet = 20 yards
10) 10 feet = 120 inches
11) 7 yards = 21 feet
12) 96 inches = 8 feet

Use the conversion table to solve the word problems.

13) Joey is trying out for the football team at school. He tells the coach that he can throw a ball 36 feet, but his coach reminds Joey that the field is measured in yards. How many yards can Joey throw the ball?

12 yards

14) Marianne is rearranging her room. Each wall in her room is 12 feet long. Her desk measures 36 inches, her bed is 72 inches, and her bookshelf is 24 inches. If she places them all along the same wall, how much of the wall will remain uncovered, in feet?

1 foot

*Bonus Activity: Use a measuring tape or yardstick to measure things around your house. Can you find anything that is longer than 3 yards?

Answer Sheet

Sunny Day Decimals: Round and Compare

Name:_____ Date:_____

Use the greater than, less than, and equal to symbols (>, <, =) to compare each set of decimals.

ANSWERS

1. 0.419 > 0.402
2. 62.03 < 63.03
3. 0.725 < 7.025
4. 55.90 = 55.9
5. 483.06 < 483.08
6. 37.25 > 37.2
7. 21.91 > 21.19
8. 6.40 = 6.400

Round each decimal to the given place.

1. round 34.934 to the nearest hundredth _____34.93_____
2. round 607.5 to the nearest whole number _____608_____
3. round 3.106 to the nearest hundredth _____3.11_____
4. round 26.829 to the nearest tenth _____26.8_____
5. round 5.734 to the nearest whole number _____6_____
6. round 468.113 to the nearest tenth _____468.1_____

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Answer Sheet

The Super Powers of Ten

Name:_____ Date:_____

Powers of ten are numbers that are divisible by 10.
Review the examples below, then solve the problems.

To multiply a whole number by a power of ten, count the number of zeros after the 1 and add the same number or zeros (or place values) to the end of the whole number you are multiplying.

52 x 10 = 520
37 x 100 = 3,700
4 x 1,000 = 4,000

0.52 x 10 = 5.2
0.37 x 100 = 37
0.048 x 1,000 = 48

To multiply a decimal by a power of ten, move the decimal point one place to the RIGHT for each zero after the 1.

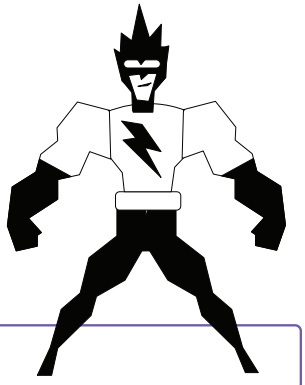
Multiply by the power of ten.

ANSWERS

1) 0.45 x 10 = 4.5
2) 81 x 1,000 = 81,000
3) 0.216 x 100 = 21.6
4) 1.07 x 100 = 107
5) 973 x 10 = 9,730
6) 0.75 x 10,000 = 7,500
7) 63 x 1,000 = 63,000
8) 0.059 x 10 = 0.59
9) 1,048 x 100 = 104,800

1.6 ÷ 10 = 0.16
520 ÷ 10 = 52
37 ÷ 100 = 0.37
48 ÷ 1,000 = 0.048

To divide a number by a power of ten, move the decimal point LEFT as many places as there are zeros in power of ten. If there are not enough digits in the number you are dividing, you may add zeros.



Divide by the power of ten.

10) 1.27 ÷ 10 = 0.127
11) 3,948 ÷ 100 = 39.48
12) 56 ÷ 1,000 = 0.056
13) 8 ÷ 10 = 0.8
14) 470.1 ÷ 100 = 4.701
15) 2.35 ÷ 1,000 = 0.00235

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