Math For Me:

Level F (Answer Key)

Family Life Homeschooling

This book belongs to:

_____

Math For Me
Level F

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MATH FOR ME

LEVEL F

Note to parents:

Thank you for buying this workbook, I made it for my own children and wanted to share. We like to play a lot of math games, so I wanted a workbook with less worksheets, this way we have more time to play. Use it as a guide and play as much as you can.

I hope you and your children enjoy it.

Abby.

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NUMBERS AND NUMBER SENSE

Billions			Millions			Thousands			Ones		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
4	5	2	7	8	2	8	4	7	2	9	0

Billions and Place Value

Write the correct number of millions, thousands, and ones.

	Millions	Thousands			Ones		
	ones	Hundreds	Ten	ones	hundreds	tens	ones
5,734,582	5	7	3	4	5	8	2
8,386,285	8	3	8	6	2	8	5
8,036,273	8	0	3	6	2	7	3
5,301,192	5	3	0	1	1	9	2

Write these numbers below: five hundred twenty-six, seventy-three thousand nine hundred, four million, one million and two hundred thousand.

526

73,000

900

4,000,000

1,200,000

Read these numbers:

3,572,950 4,028,672 5,208,451 4,184,023

Write 5,728,925 in expanded form.

5,000,000 + 700,000 + 20,000 +

8,000 + 900 + 20 +5

Write >, <, or =.

4,736,082	<	5,263,846
1,073,460	<	2,627,803
6,782,199	>	3,627,035
8,448,132	=	8,448,132
5,247,861	>	1,365,096
2,573,925	<	7,246,904

Write the correct number of millions, thousands, and ones.

	Millions			Thousands			Ones		
	Hundreds	Ten	ones	Hundreds	Ten	ones	hundreds	tens	ones
37,374,062		3	7	3	7	4	0	6	2
835,268,369	8	3	5	2	6	8	3	6	9
473,968,248	4	7	3	9	6	8	2	4	8
836,093,735	8	3	6	0	9	3	7	3	5

Write these numbers below: nine hundred and sixty-seven million forty-eight thousand ten, four hundred and sixty million, seven hundred and eighteen million two thousand, five hundred and fifty-nine million two thousand and twenty-one.

967,048,010

460,000,000

708,002,000

559,002,021

Read these numbers:

374,803,572 647,359,024 527,835,947 347,782,477

Write 735,725,624 in expanded form.

700,000,000 + 30,000,000 +

5,000,000 + 700,000 + 20,000 +

5,000 + 600 + 20 + 4

Write >, <, or =.

463,748,942	=	463,748,942
473,963,072	>	264,736,268
573,864,263	>	364,969,757
646,937,384	<	903,953,264
960,264,600	>	563,682,603
563,738,752	>	356,374,246

6,	2	5	7,	1	4	8,	5	9	3

Color the number in the hundreds place red.

Color the number in the ten thousands place pink.

Color the number in the thousands place blue.

Color the number in the billions place green.

Color the number in the hundred thousands place orange.

Color the number in the ones place brown.

Color the number in the millions place yellow.

Write these numbers below: forty-one million, five hundred and seventy-nine million, three hundred and ninety thousand, one billion.

41,000,000

579,000,000

390,000

1,000,000,000

Read these numbers:

4,374,803,672 3,647,389,024 9,507,835,947 6,347,782,475

Write 5,384,738,012 in expanded form.

5,000,000,000 + 300,000,000 +
80,000,000 + 4,000,000 + 700,000 +
30,000 + 8,000 + 10 + 2

Write >, <, or =.

2,463,788,942	>	2,463,748,142
3,773,963,072	>	1,164,736,268
5,570,864,263	<	7,367,969,757
4,646,987,384	=	4,646,987,384
7,960,264,660	>	3,563,689,603
3,563,248,752	<	6,306,374,346

2	8	6,	2	5	7,	1	4	8,	5	9	3

Color the number in the hundreds place red.

Color the number in the ten thousand place pink.

Color the number in the thousands place blue.

Color the number in the billions place green.

Color the number in the hundred thousand place orange.

Color the number in the hundred billion place brown.

Color the number in the millions place yellow.

Write these numbers below: forty-one billion, eight hundred and fifty-three billion, two hundred and two billion, nine hundred and eleven billion.

41,000,000,000

853,000,000,000

202,000,000,000

911,000,000,000

Read these numbers:

346,268,693,738 453,647,389,024 463,683,902,636 236,347,782,475

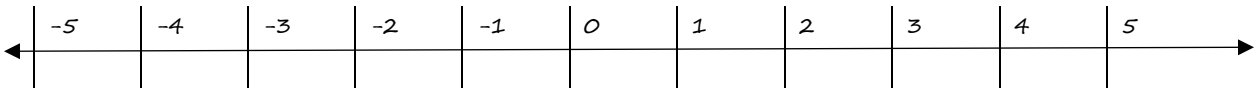
Write 374,375,840,357 in expanded form.

300,000,000,000 + 70,000,000,000 +
4,000,000,000 + 300,000,000 +
70,000,000 + 5,000,000 + 800,000 +
40,000 + 300 + 50 + 7

Write >, <, or =.

463,788,942,425	>	463,748,142,483
773,963,268,072	>	164,836,736,573
570,494,864,263	<	594,367,969,757
357,646,987,384	<	646,987,384,406
960,264,660,739	>	563,689,380,603
563,572,248,752	=	563,572,248,752

Positive and Negative Numbers



Write the opposites of these numbers:

5 = -5

-3 = 3

4 = -4

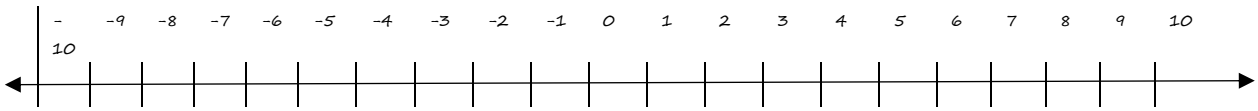
-2 = 2

Write >, or <.

-3	<	1
2	>	-5
5	>	4
-1	>	-4

Add and subtract.

-2 + 5 =	3	4 − 3 =	1
-1 + -3 =	-4	-2 − 1 =	-3
2 + 2 =	4	-1 − 4 =	-5



Write the opposites of these numbers:

10 = -10

-6 = 6

8 = -8

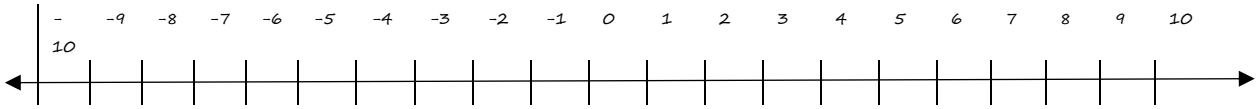
-9 = 9

Write >, or <.

-5	<	8
7	>	-2
9	>	7
-10	<	-3

Add and subtract.

-8 + 4 =	-4	9 - 3 =	6
-3 + -6 =	-9	-5 - 4 =	-9
7 + 2 =	9	-2 - 8 =	-10



Add and subtract.

$-4 + 7 =$ 3	$1 - 2 =$ -1
$-6 + -4 =$ -10	$-5 - 3 =$ -8
$9 + -10 =$ -1	$-8 - 2 =$ -10

$\begin{array}{r} 10 \\ \underline{+\ -10} \\ 0 \end{array}$	$\begin{array}{r} 8 \\ \underline{-\ -4} \\ 12 \end{array}$
$\begin{array}{r} -5 \\ \underline{+\ 3} \\ -2 \end{array}$	$\begin{array}{r} -2 \\ \underline{+\ -7} \\ -9 \end{array}$
$\begin{array}{r} 5 \\ \underline{-\ +7} \\ -2 \end{array}$	$\begin{array}{r} -8 \\ \underline{-\ +\ 6} \\ -14 \end{array}$

Rounding

Round to the nearest thousand.

4,935	5,000	8,737	9,000
8,461	8,000	2,892	3,000
1,062	1,000	7,430	7,000

Round to the nearest hundred thousand.

683,642	700,000	175,942	200,000
935,920	900,000	683,144	700,000
836,063	800,000	910,483	900,000

Round to the nearest million.

4,475,902	4,000,000	8,737,345	9,000,000
8,042,668	8,000,000	2,942,736	3,000,000
1,462,894	1,000,000	7,636,964	8,000,000

Squares, Exponents, and Powers of Ten

Solve.

$1^2 =$ 1	$4^2 =$ 16	$7^2 =$ 49	$10^2 =$ 100
$2^2 =$ 4	$5^2 =$ 25	$8^2 =$ 64	$11^2 =$ 121
$3^2 =$ 9	$6^2 =$ 36	$9^2 =$ 81	$12^2 =$ 144

$1^4 =$ 1x1x1x1=1

$7^3 =$ 7x7x7=343

$8^2 =$ 8x8=64

$5^8 =$ 5x5x5x5x5x5x5x5=390,625

$1^6 =$ 1x1x1x1x1x1=1

$6^5 =$ 6x6x6x6x6=7,776

$10^1 =$	10
$10^2 =$	100
$10^3 =$	1,000
$10^4 =$	10x10x10x10=10,000
$10^5 =$	100,000
$10^6 =$	1,000,000

Solve.

$17^1 =$	17
$2^2 =$	4
$6^7 =$	279,936
$10^5 =$	100,000
$9^3 =$	729
$4^6 =$	4,090

Solve.

$10^{10}=$	10,000,000,000
$2^{8}=$	256
$8^{3}=$	572
$9^{1}=$	9
$7^{7}=$	823,543
$15^{5}=$	759,375

Prime Numbers and Factors

Find the prime numbers and circle them. Cross the composite numbers.

	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Break these numbers into prime factors.

81=	9x9	9= 3x3	81= 3x3x3x3	$81=3^4$
49=	**7x7**			**$49=7^2$**
16=	**4x4**	**4=2x2**	**16=2x2x2x2**	**$16=2^4$**

Break these numbers into prime factors.

9=	**3x3**			**$9=3^2$**
64=	**8x8**			**$64=8^2$**
256=	**16x16**	**16=4x4**	**4=2x2**	**$256=2^8$**

Greatest Common Factor and Least Common Factor

Find the Factors of…

8	1, 8, 2, 4
4	1,4,2
18	1,18,2,9,3,6
16	1,16,2,8,4
20	1,20,2,10,4,5

Find the Multiples of…

2	2-4-6-8-10-12-14-16-18-20-22-24-26-28…
3	3-6-9-12-15-18-21-24-27-30…
4	4-8-12-16-20-24-28-32-36-40…
5	5-10-15-20-25-30-35-40-45-50…
10	10-20-30-40-50-60-70-80-90-100…

Find the greatest common factor

20	4
28	4

24	12
36	12

12	4
16	4

Find the least common multiple

3	12
4	12

3	15
5	15

9	36
12	36

Find the greatest common factor

16	8
24	8
9	1
20	1
12	6
18	6

Find the least common multiple

2	6
3	6
4	12
6	12
2	16
8	16

COMPUTATION

$$n + 23 = 20$$

Equations

Find what number the variable in the equations stand for.

$n + 15 = 19$

$n=19-15$

$n=4$

$a - 8 = 10$

$a=10+8$

$a=18$

Find what number the variable in the equations stand for.

$n + 30 = 45$

$n=45-30$

$n=15$

$a - 12 = 8$

$a=8+12$

$a=20$

Find what number the variable in the equations stand for.

$n \times 5 = 20$

$n=20 \div 5$

$n=4$

$a \div 9 = 90$

$a=90 \times 9$

$a=810$

Find what number the variable in the equations stand for.

$n \times 3 = 33$

$n=33 \div 3$

$n=11$

$a \div 6 = 36$

$a=36 \times 6$

$a=216$

Find what number the variable in the equations stand for.

$n + 5 = -12$

$n=-12-5$

$n=-17$

$a - 8 = -5$

$a=-5+8$

$a=3$

Find what number the variable in the equations stand for.

$n + 10 = -8$

$n=-8-10$

$n=-18$

$a - 3 = -6$

$a=-6+3$

$a=-3$

Find what number the variable in the equations stand for.

$n + 5^2 = 20$

$n + 25 = 20$

$n = 20 - 25$

$n = -5$

$a - 10^2 = 27$

$a - 100 = 27$

$a = 27 + 100$

$a = 127$

Find what number the variable in the equations stand for.

$n + 6^2 = 50$

$n + 36 = 50$

$n = 50-36$

$n=14$

$a - 4^2 = 36$

$a - 16 = 36$

$a = 36 + 16$

$a=52$

Find what number the variable in the equations stand for.

$n + 4^2 = 50 \times 2$

$n + 16 = 100$

$n = 100 - 16$

$n=84$

$a - 3^3 = 15 \times 2$

$a - 27 = 30$

$a = 30 + 27$

$a=57$

Find what number the variable in the equations stand for.

$n + 5 = 20 \div 2$

$n = 10 - 5$

$n=5$

$a - 7 = 30 \div 10$

$a = 3 + 7$

$a=10$

Multiplying Larger Factors

Multiply.

$$\begin{array}{r} 3{,}581 \\ \times\ 54 \\ \hline 193{,}374 \end{array}$$

$$\begin{array}{r} 2{,}843 \\ \times\ 17 \\ \hline 48{,}331 \end{array}$$

Multiply.

$$\begin{array}{r} 7{,}142 \\ \times\ 783 \\ \hline 5{,}592{,}186 \end{array}$$

$$\begin{array}{r} 9{,}045 \\ \times\ 106 \\ \hline 958{,}770 \end{array}$$

Multiply.

$$\begin{array}{r} 4{,}946 \\ \times\ 2{,}592 \\ \hline 12{,}820{,}032 \end{array}$$

$$\begin{array}{r} 2{,}592 \\ \times\ 8{,}462 \\ \hline 21{,}933{,}504 \end{array}$$

Multiply.

$$\begin{array}{r} 2{,}853 \\ \times\ 7{,}327 \\ \hline 20{,}903{,}931 \end{array}$$

$$\begin{array}{r} 3{,}743 \\ \times\ 4{,}894 \\ \hline 18{,}329{,}471 \end{array}$$

Short and Long Division

Solve.

$$\begin{array}{r} 1{,}097 \\ 7\overline{)\,7{,}679} \end{array}$$

$$\begin{array}{r} 991 \\ 4\overline{)\,3{,}964} \end{array}$$

$$\begin{array}{r} 2{,}091 \\ 3\overline{)\,6{,}275} \end{array}$$

$$\begin{array}{r} 305 \\ 5\overline{)\,1{,}529} \end{array}$$

Solve.

$$\begin{array}{r} 2{,}376 \\ 2\overline{)\,4{,}753} \end{array}$$

$$\begin{array}{r} 1{,}541 \\ 6\overline{)\,9{,}246} \end{array}$$

$$\begin{array}{r} 638 \\ 9\overline{)\,5{,}742} \end{array}$$

$$\begin{array}{r} 919 \\ 8\overline{)\,7{,}352} \end{array}$$

Solve.

$$\begin{array}{r} 694 \\ 10\overline{)\,6{,}942} \end{array}$$

$$\begin{array}{r} 127 \\ 45\overline{)\,5{,}743} \end{array}$$

$$\begin{array}{r} 574 \\ 13\overline{)\,7{,}472} \end{array}$$

$$\begin{array}{r} 101 \\ 55\overline{)\,5{,}572} \end{array}$$

Solve.

$$\begin{array}{r} 14{,}566 \\ 63\overline{)917{,}679} \end{array}$$

$$\begin{array}{r} 11{,}522 \\ 42\overline{)483{,}964} \end{array}$$

$$\begin{array}{r} 7{,}340 \\ 83\overline{)609{,}275} \end{array}$$

$$\begin{array}{r} 1{,}896 \\ 53\overline{)100{,}529} \end{array}$$

Solve.

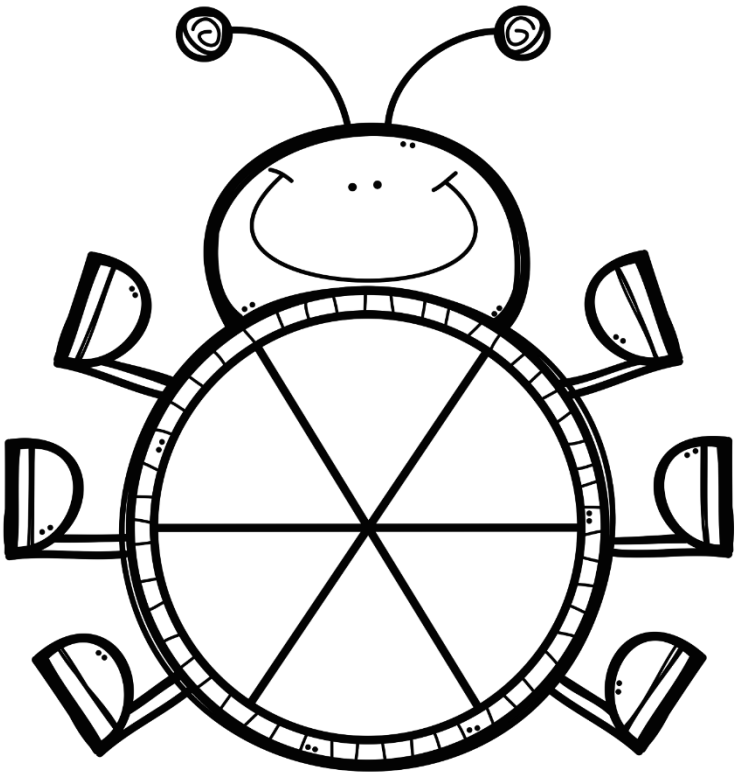
$$\begin{array}{r|r} & 2{,}671 \\ \hline 275 & 734{,}652 \end{array}$$

$$\begin{array}{r|r} & 624 \\ \hline 845 & 528{,}053 \end{array}$$

$$\begin{array}{r|r} & 1{,}501 \\ \hline 285 & 427{,}824 \end{array}$$

$$\begin{array}{r|r} & 664 \\ \hline 945 & 628{,}042 \end{array}$$

DECIMALS, FRACTIONS, AND MIXED NUMBERS



Decimals

Solve.

6.57 + 9.54 16.11	4.28 + 5.84 10.12
9.39 + 2.81 12.20	7.31 + 7.49 14.80
7.34 + 8.72 15.06	2.83 + 5.01 7.84

Solve.

6.57 - 3.54 3.03	4.28 - 1.15 3.13
9.39 - 6.18 3.21	7.31 - 3.21 4.10
7.34 - 4.02 3.14	2.83 - 1.50 1.33

Solve.

0.57 x 4 2.28	4.28 x 5 21.4
9.39 x 8 75.12	7.31 x 2 14.62
7.34 x 2 14.68	2.83 x 50 141.5

Solve.

0.37 x 24 8.88	2.73 x 53 144.69
4.16 x 30 124.8	1.59 x 92 146.28
9.49 x 22 208.78	7.83 x 63 493.29

Solve.

10 x 4.273 = 42.73

10 x 6.284 = 62.84

10 X 8.732 = 87.32

100 x 9.052 = 905.2

100 x 2.874 = 287.4

1,000 x 8.724 = 8724

Solve.

5.37 x 2.4 12.888	2.90 x 5.3 15.37
4.76 x 3.7 17.612	1.58 x 9.2 14.536
4.89 x 2.2 10.758	9.81 x 6.7 65.727

Solve.

$$\begin{array}{r} 20.31 \\ 2\overline{)40.62} \end{array}$$

$$\begin{array}{r} 10.40 \\ 5\overline{)52.03} \end{array}$$

$$\begin{array}{r} 5.35 \\ 8\overline{)42.82} \end{array}$$

$$\begin{array}{r} 15.51 \\ 4\overline{)62.04} \end{array}$$

Solve.

56.8 ÷ 10 = 5.68

563.9 ÷ 10 = 56.39

385.67 ÷ 100 = 3.8567

3.7 ÷ 100 = 0.037

6,397.56 ÷ 1,000 = 6.39756

4.9 ÷ 1,000 = 0.0049

Fractions and mixed numbers

When you multiply or divide a fraction (both the denominator and the numerator) by the same number you make an equivalent fraction.

Solve these equations so that the fractions are equivalent.

$\frac{2}{4} = \frac{n}{8}$	$\frac{2\ x\ 2}{4\ x\ 2} = \frac{4}{8}$	$n = 4$
$\frac{5}{8} = \frac{n}{24}$	$\frac{5x3}{8x3} = \frac{15}{24}$	$n=15$
$\frac{7}{21} = \frac{n}{3}$	$\frac{7 \div 7}{21 \div 7} = \frac{1}{3}$	$n=1$
$\frac{10}{30} = \frac{n}{6}$	$\frac{10 \div 5}{30 \div 5} = \frac{2}{6}$	$n=2$

Put these fractions in their lowest terms.

$\frac{2}{4}$	$\frac{2 \div 2}{4 \div 2}$	$\frac{1}{2}$
$\frac{12}{18}$	$\frac{12}{18} \div 2$ $\frac{6}{9} \div 3$	$\frac{2}{3}$
$\frac{16}{32}$	$\frac{16}{32} \div 16$	$\frac{1}{2}$
$\frac{6}{21}$	$\frac{6}{21} \div 3$	$\frac{2}{7}$

Compare these fractions.

$\frac{2}{4}$ $\frac{6}{3}$	$\frac{2\ x\ 3}{4\ x\ 3} = \frac{6}{12}$ $\frac{6\ x\ 4}{3\ x\ 4} = \frac{24}{12}$	$\frac{6}{12} < \frac{24}{12}$	$\frac{2}{4} < \frac{6}{3}$
$\frac{5}{7}$ $\frac{6}{4}$	$\frac{5x4}{7x4} = \frac{20}{28}$ $\frac{6x7}{4x7} = \frac{42}{28}$	$\frac{20}{28} < \frac{42}{28}$ $\frac{5}{7} < \frac{6}{4}$	
$\frac{9}{2}$ $\frac{8}{5}$	$\frac{9x5}{2x5} = \frac{45}{10}$ $\frac{8x2}{5x2} = \frac{16}{10}$	$\frac{45}{10} > \frac{16}{10}$ $\frac{9}{2} > \frac{8}{5}$	
$\frac{4}{7}$ $\frac{8}{6}$	$\frac{4x6}{7x6} = \frac{24}{42}$ $\frac{6x7}{4x7} = \frac{56}{42}$	$\frac{24}{42} < \frac{56}{42}$ $\frac{4}{7} < \frac{8}{6}$	

Add. Write each sum in lowest terms.

$$\frac{3}{5} + \frac{6}{5} = \frac{9}{5}$$

$$\frac{8}{2} + \frac{4}{2} = \frac{12}{2} \div 2 = \frac{6}{1} = 6$$

$$\frac{7}{9} + \frac{5}{9} = \frac{12}{9} \div 3 = \frac{4}{3} = 1\frac{1}{3}$$

$$\frac{7}{4} + \frac{6}{4} = \frac{13}{4} = 3\frac{1}{4}$$

Add. Write each sum in lowest terms.

$$\frac{8}{5}+\frac{6}{2}=\frac{8x2}{5x2}+\frac{6x5}{2x5}=\frac{16}{10}+\frac{30}{10}=\frac{46}{10}=4\frac{6}{10}$$

$$\frac{9}{4}+\frac{4}{3}=\frac{(9x3)+(4x4)}{4x3}=\frac{43}{12}=3\frac{7}{12}$$

$$\frac{7}{5}+\frac{5}{9}=\frac{(7x9)+(5x5)}{5x9}=\frac{88}{45}=1\frac{43}{45}$$

$$\frac{1}{6}+\frac{6}{4}=\frac{(1x4)+(6x6)}{6x4}=\frac{40}{24}=1\frac{16}{24}=1\frac{2}{3}$$

Solve. Write each difference in lowest terms.

$$\frac{9}{5} - \frac{6}{5} = \frac{3}{5}$$

$$\frac{8}{2} - \frac{4}{2} = \frac{4}{2} = 2$$

$$\frac{7}{9} - \frac{5}{9} = \frac{2}{9}$$

$$\frac{7}{4} - \frac{6}{4} = \frac{1}{4}$$

Solve. Write each difference in lowest terms.

$$\frac{8}{5} - \frac{2}{2} = \frac{(8x2)-(2x5)}{5x2} = \frac{6}{10} = \frac{3}{5}$$

$$\frac{9}{4} - \frac{4}{3} = \frac{(9x3)-(4x4)}{4x3} = \frac{11}{12}$$

$$\frac{7}{5} - \frac{5}{9} = \frac{(7x9)-(5x5)}{5x9} = \frac{38}{45}$$

$$\frac{9}{6} - \frac{6}{4} = \frac{(9x4)-(6x6)}{6x4} = \frac{0}{24} = 0$$

Write these fractions as decimals.

$\frac{2}{5}$	0.4
$\frac{7}{10}$	0.7
$\frac{15}{20}$	0.75
$\frac{21}{25}$	0.84
$\frac{34}{50}$	0.68

Write these decimals as fractions or mixed numbers.

0.25	$\frac{25}{100}=\frac{1}{4}$
0.048	$\frac{48}{1,000}=\frac{6}{125}$
5.63	$5\frac{63}{100}$
1.029	$1\frac{29}{1,000}$
0.39	$\frac{39}{100}$

Add. Write each sum in lowest terms.

$$7\frac{2}{5} + 1\frac{4}{5} = 8\frac{6}{5} = 9\frac{1}{5}$$

$$5\frac{2}{3} + 4\frac{1}{3} = 9\frac{3}{3} = 10$$

$$8\frac{7}{9} + 2\frac{5}{9} = 10\frac{12}{9} = 11\frac{3}{9} = 11\frac{1}{3}$$

$$4\frac{1}{6} + 6\frac{5}{6} = 10\frac{6}{6} = 11$$

Add. Write each sum in lowest terms.

$$3\frac{4}{5} + 7\frac{1}{2} = 10\frac{(4x2)+(1x5)}{5x2} = 10\frac{13}{10} = 11\frac{3}{10}$$

$$6\frac{3}{4} + 5\frac{2}{3} = 11\frac{(3x3)+(2x4)}{4x3} = 11\frac{17}{12} = 12\frac{5}{12}$$

$$8\frac{4}{5} + 7\frac{5}{9} = 15\frac{(4x9)+(5x5)}{5x9} = 15\frac{16}{20} = 18\frac{1}{20}$$

$$3\frac{1}{6} + 1\frac{3}{4} = 4\frac{(1x4)+(3x6)}{6x4} = 4\frac{22}{24} = 4\frac{11}{12}$$

Solve. Write each difference in lowest terms.

$$6\frac{4}{5} - 1\frac{3}{5} = 5\frac{1}{5}$$

$$8\frac{1}{2} - 4\frac{1}{2} = 4$$

$$7\frac{7}{9} - 3\frac{5}{9} = 4\frac{2}{9}$$

$$7\frac{2}{4} - 4\frac{1}{4} = 3\frac{1}{4}$$

Solve. Write each difference in lowest terms.

$$8\frac{4}{5} - 1\frac{1}{2} = 7\frac{(4x2)-(1x5)}{5x2} = 7\frac{3}{10}$$

$$9\frac{3}{4} - 4\frac{1}{3} = 5\frac{(3x3)-(1x4)}{4x3} = 5\frac{5}{12}$$

$$7\frac{4}{5} - 4\frac{3}{9} = 3\frac{(4x9)-(3x5)}{5x9} = 3\frac{21}{45} = 3\frac{7}{15}$$

$$9\frac{5}{6} - 6\frac{2}{4} = 3\frac{(5x4)-(2x6)}{6x4} = 3\frac{8}{24} = 3\frac{1}{3}$$

Solve. Write each product in lowest terms.

$$8 \times \frac{2}{2} = \frac{16}{2} = 8$$

$$9 \times \frac{4}{3} = \frac{36}{3} = 12$$

$$3 \times \frac{5}{9} = \frac{15}{9} = 1\frac{6}{9} = 1\frac{2}{3}$$

$$6 \times \frac{6}{4} = \frac{36}{4} = 9$$

PERCENTS

%

Percent

Write the percent as fraction.

8%	$\frac{8}{100}=\frac{2}{25}$
25%	$\frac{25}{100}=\frac{1}{4}$
10%	$\frac{10}{100}=\frac{1}{10}$
50%	$\frac{50}{100}=\frac{1}{2}$
68%	$\frac{68}{100}=\frac{17}{25}$

Write the fractions as a percent.

$\frac{1}{2}$	50%
$\frac{1}{5}$	20%
$\frac{1}{4}$	25%
$\frac{1}{10}$	10%

Write the percent as decimals.

27%	$\frac{27}{100} = 0.27$
79%	$\frac{79}{100} = 0.79$
56%	$\frac{56}{100} = 0.56$
10%	$\frac{10}{100} = 0.1$
30%	$\frac{30}{100} = 0.3$
37%	$\frac{37}{100} = 0.37$

Find the 30% of these numbers.

1000 300

560 168

397 119.1

Find the 57% of these numbers.

492 280.44

571 325.47

943 537.4

Find the 26% of these numbers.

463 120.38

111 28.86

582 151.32

Average

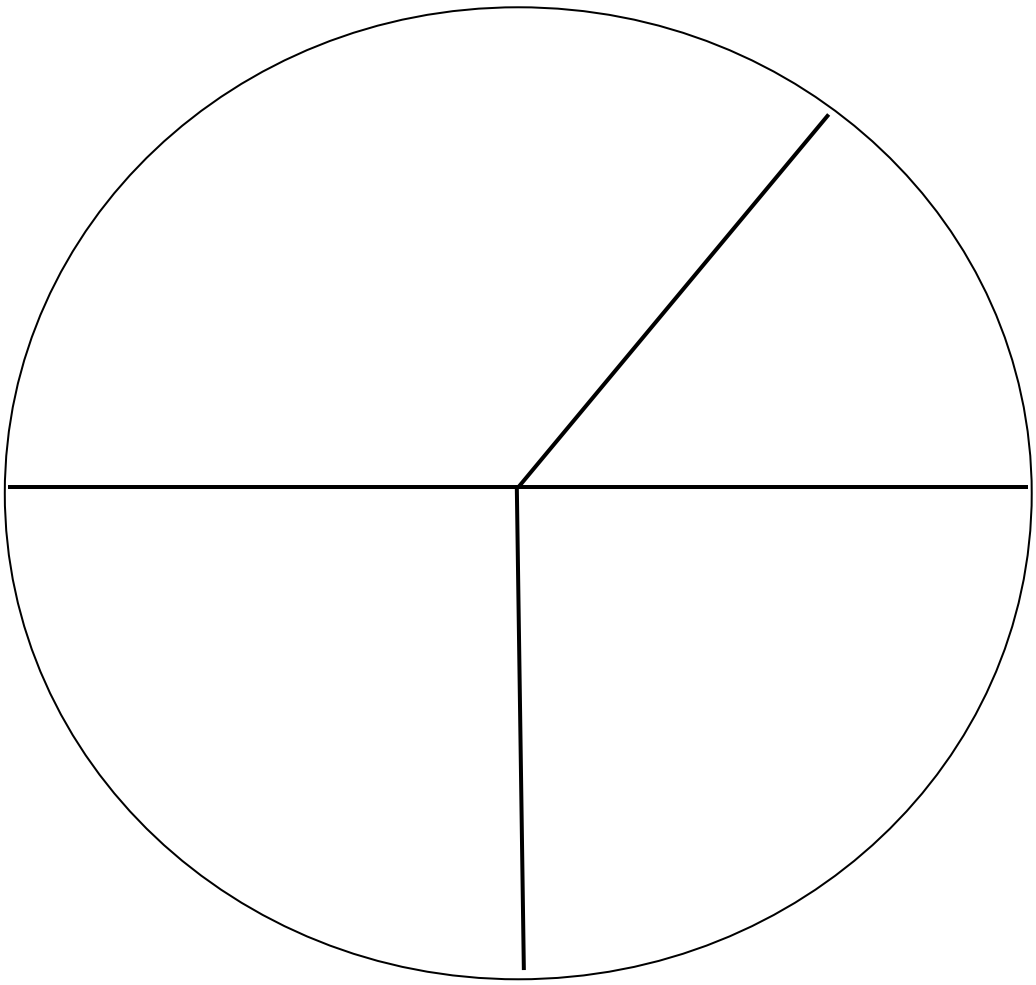
Find the average of these sets of numbers.

10,5,6,2,9 6.4

28,56,30,10,44 33.6

54,27,94,76,20 54.2

GRAPHS

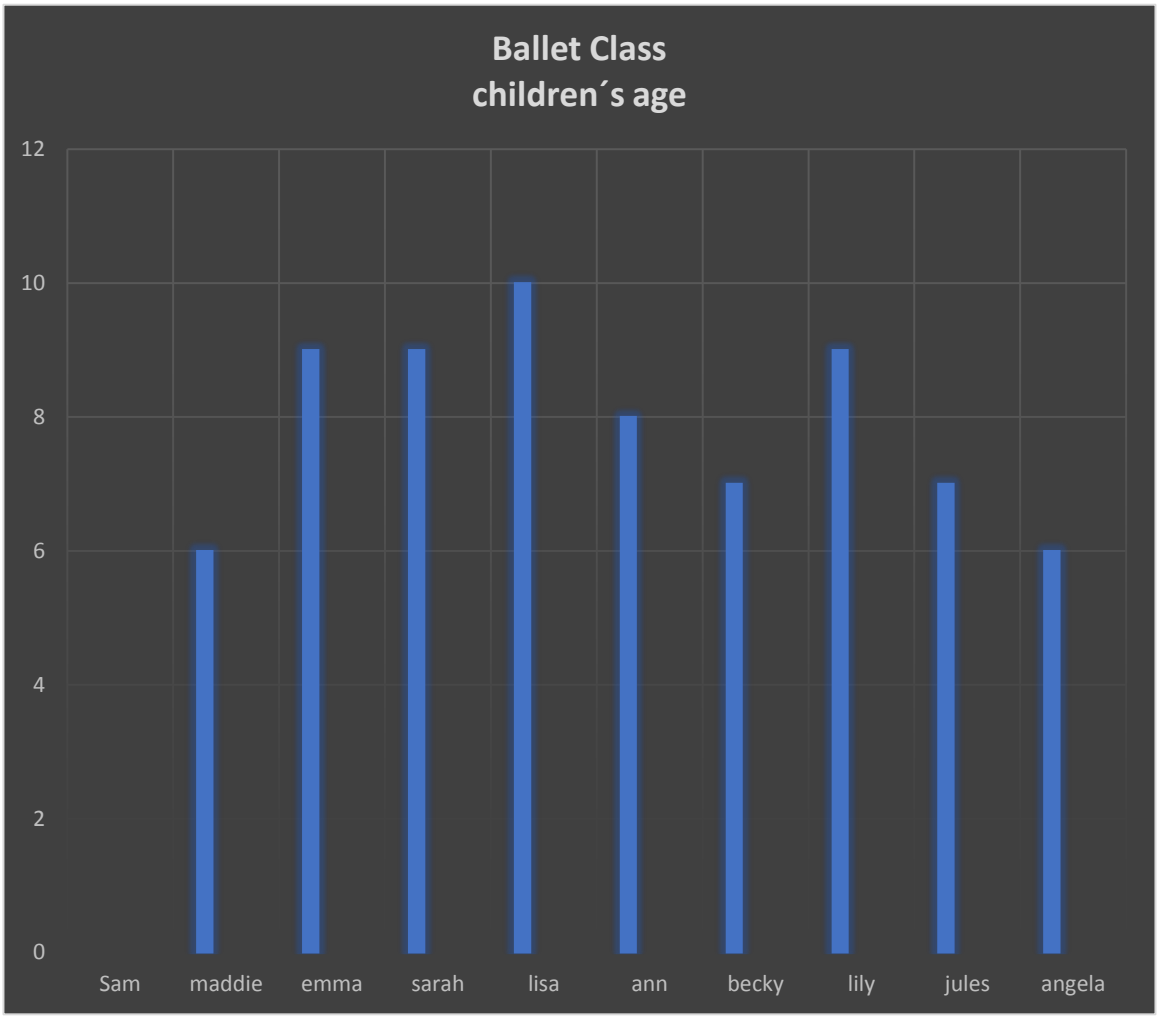


Use the data to make a bar graph.

BALLET CLASS

CHILDREN´S AGE

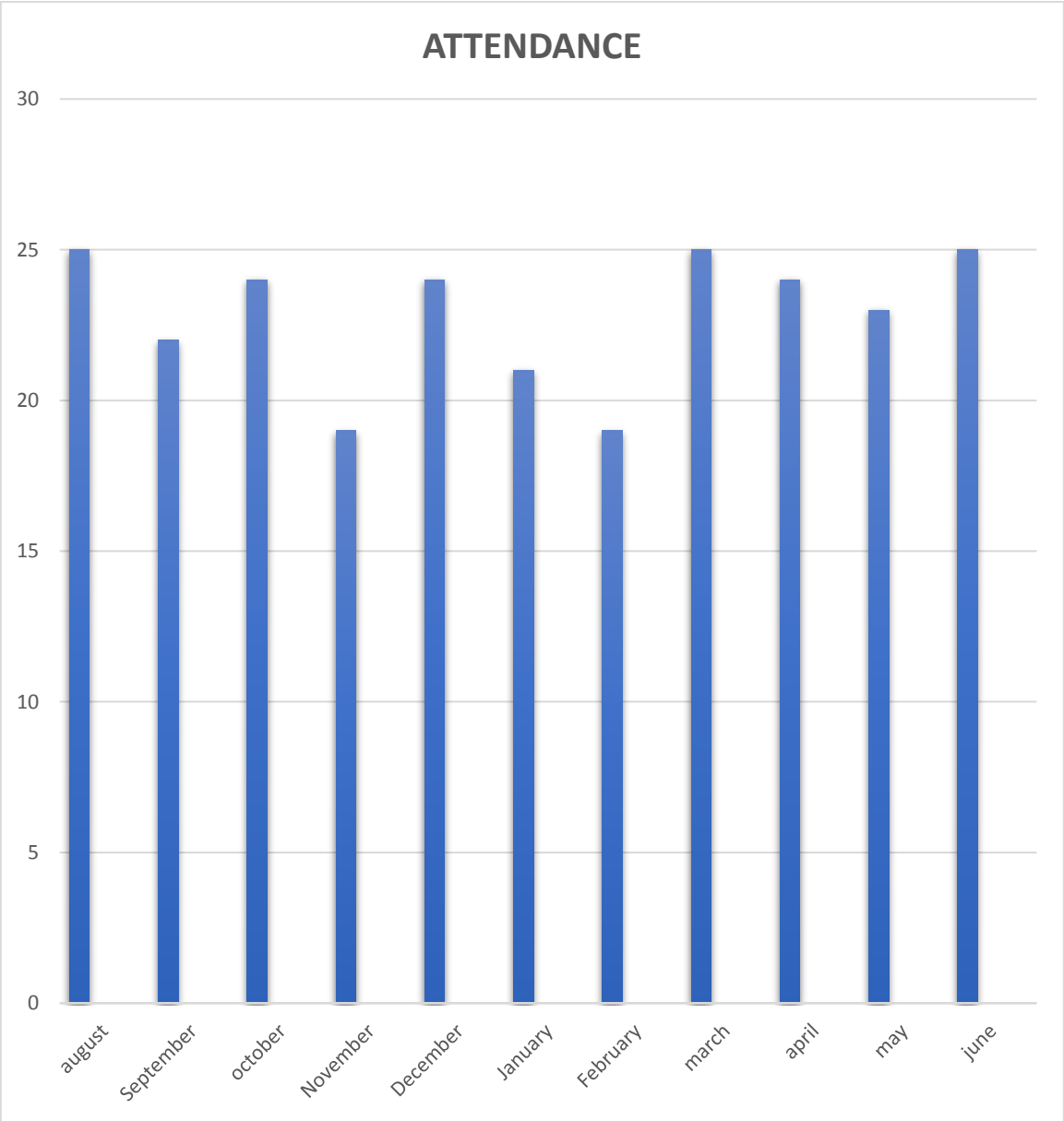
SAM	8
MADDIE	6
EMMA	9
SARAH	9
LISA	10
ANN	8
BECKY	7
LILY	9
JULES	7
ANGELA	6


Ballet Class
children´s age
12
10
8
6
4
2
0
Sam
maddie
emma
sarah
lisa
ann
becky
lily
jules
angela

Use the data to make a line graph.

AVERAGE MONTHLY 5TH GRADE ATTENDANCE 2019

AUGUST	25
SEPTEMBER	22
OCTOBER	24
NOVEMBER	19
DECEMBER	24
JANUARY	21
FEBRUARY	19
MARCH	25
APRIL	24
MAY	23
JUNE	25


ATTENDANCE
30
25
20
15
10
5
0
august
September
october
November
December
January
February
march
april
may
june

Use Excel to make a table and a bar graph. Print your work and paste it on these two pages.

ANSWERS WILL VARY

Use Excel to make a table and a line graph. Print your work and paste it on these two pages.

ANSWERS WILL VARY

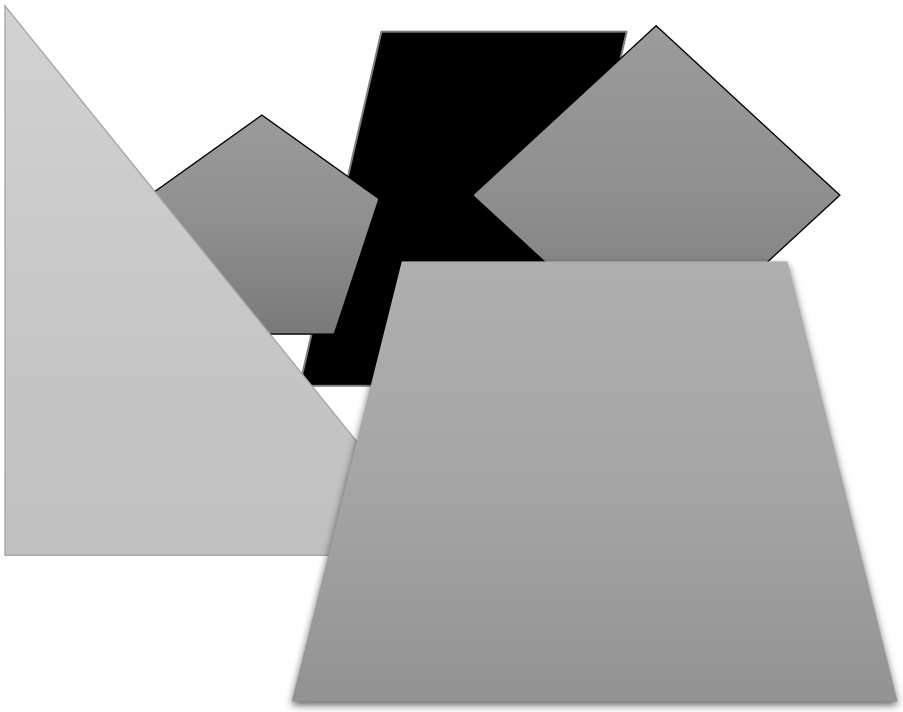
Use Excel to make a table and a circle graph. Print your work and paste it on these two pages.

ANSWERS WILL VARY

Use Excel to make a table and a circle graph. Print your work and paste it on these two pages.

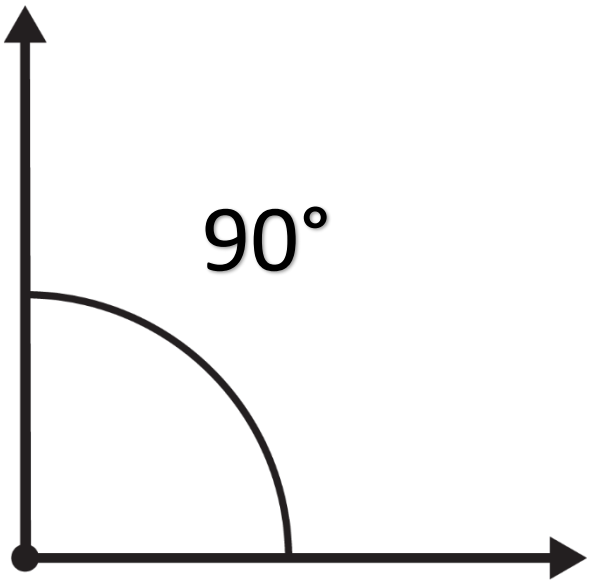
ANSWERS WILL VARY

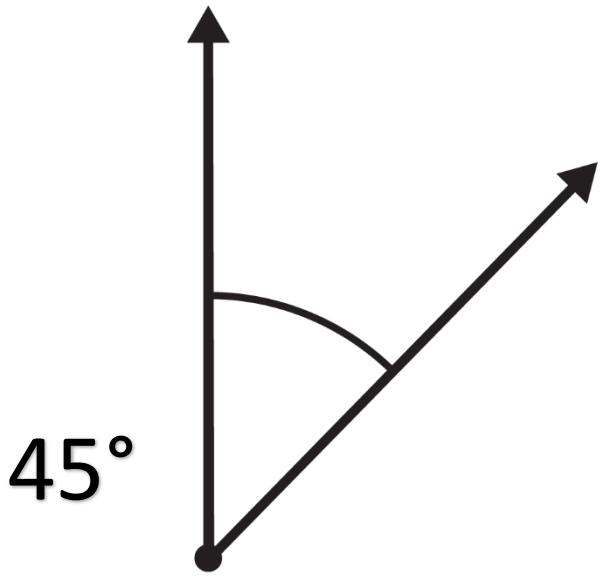
GEOMETRY



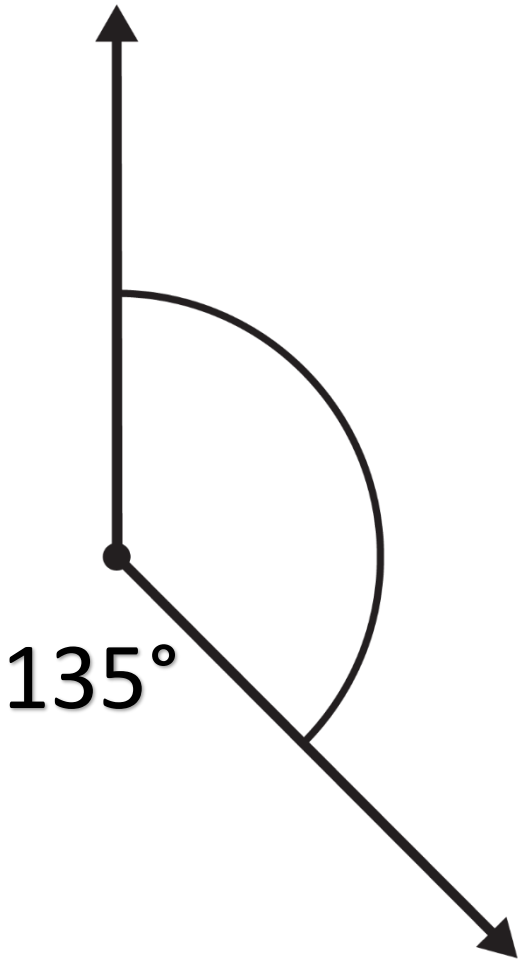
Angles

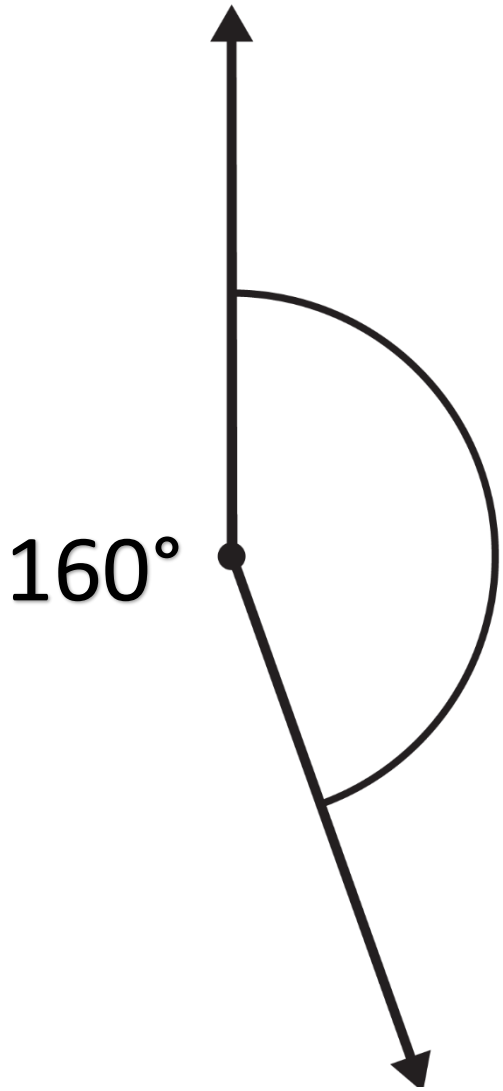
Using a protractor draw a 90° angle and a 45° angle.





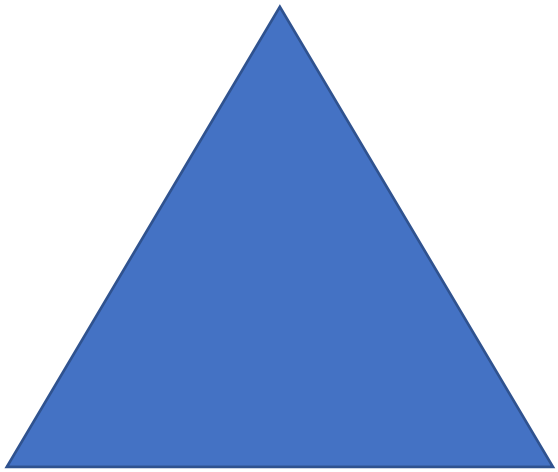
Using a protractor draw a 135° angle and a 160° angle.



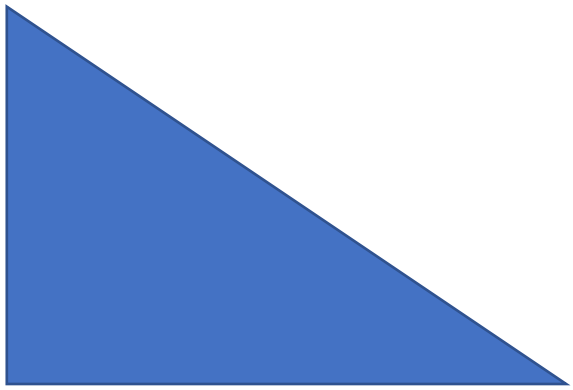


Kinds of Triangles

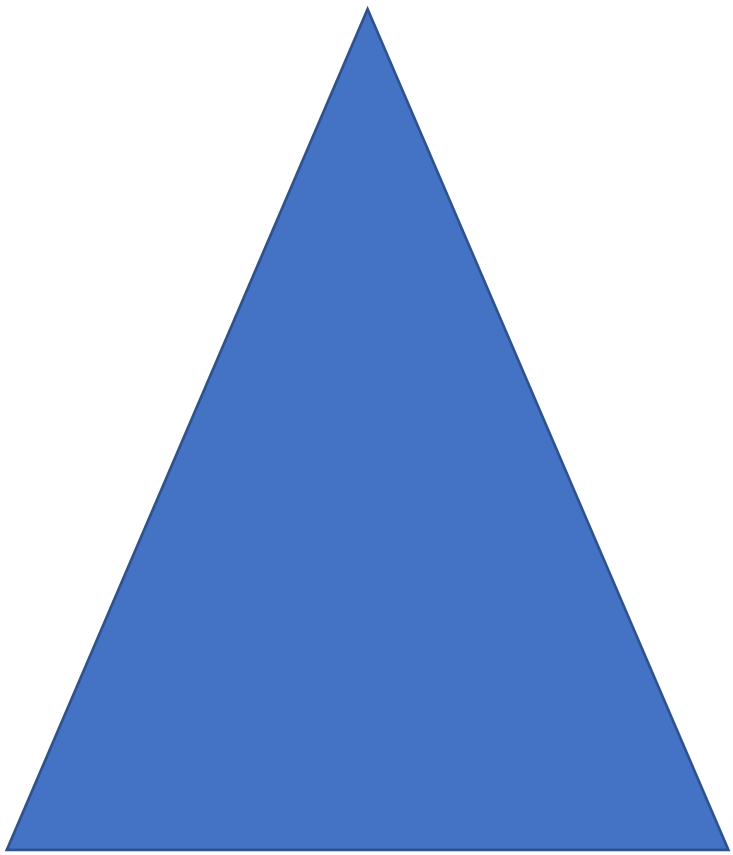
Using a ruler and a compass draw an equilateral triangle.



Using a ruler and a compass draw a right triangle.



Using a ruler and a compass draw an isosceles triangle.

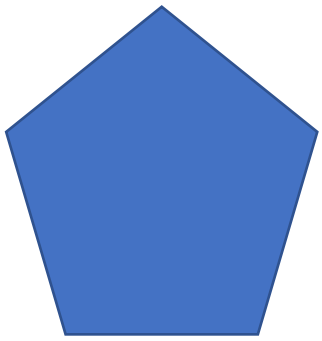


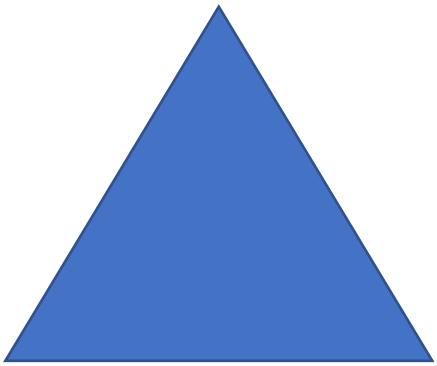
Polygons

Answer: What is a polygon?

Plane figure with at least three straight sides and angles.

Draw 2 polygons.





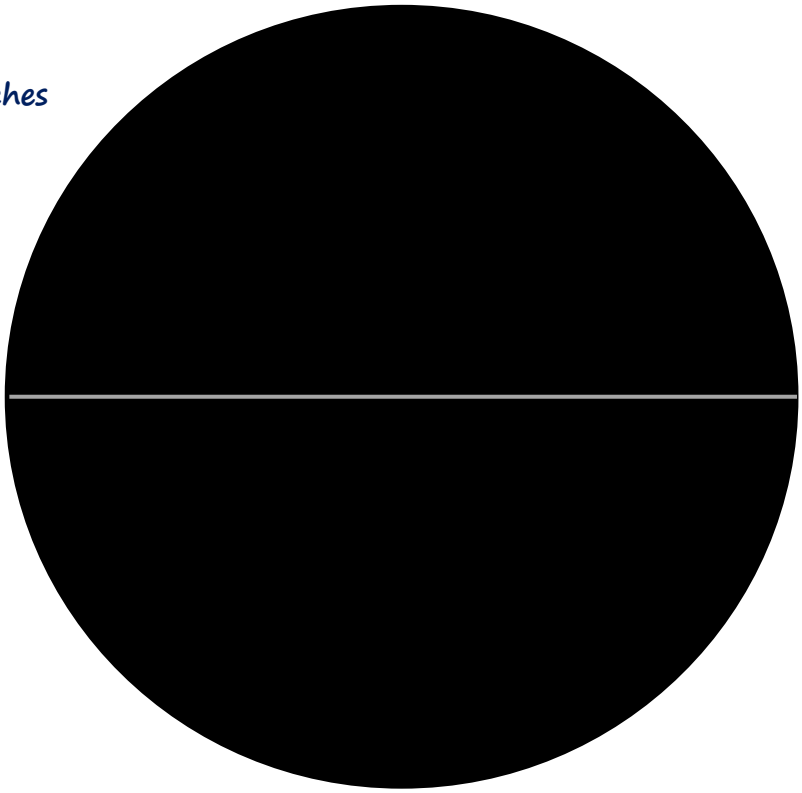
Circles

Using your compass draw a circle with a 5cm diameter.

What is the circumference of this circle?

Circumference of a circle = π x diameter **C = π x d**	**π = 3.14**

C=12.56 inches



Draw a circle with a 3 in diameter. What is its circumference?

C=9.42 in

Draw a circle with a 2 in diameter. What is its circumference?

C=6.28 in

Draw a circle with a 6 in diameter. What is its circumference?

C=18.84 in

Area

a = l X w

What is the area of a rectangle with sides 8 feet and 10 feet?

A=80 sq. ft.

What is the area of a square with sides 5 feet?

A=25 sq. ft.

What is the area of a rectangle with sides 4 feet and 6 feet?

A=24 sq. ft.

Area of a Triangle
a = (b X h) ÷ 2

Draw a triangle with sides of 10 cm, 5 cm, and 8 cm. What is its area?

A=20 cm^2

Draw a triangle with sides of 3 in, 5 in, and 6 in. What is its area?

A=7.5 in^2

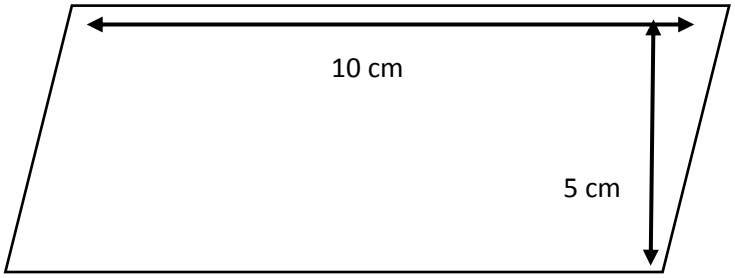
Draw a triangle with sides of 15 cm, 13 cm, and 17 cm. What is its area?

A=91 cm^2

Area of a Parallelogram
a = b X h

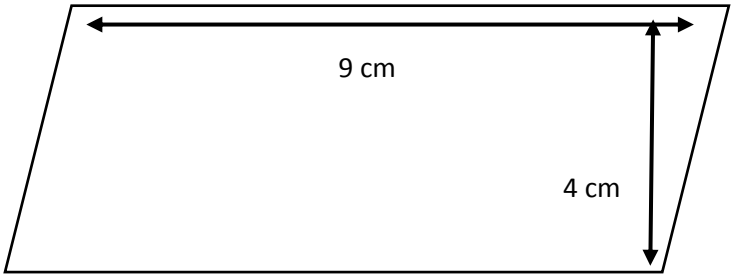
What is the area of this parallelogram?

A=91 cm^2



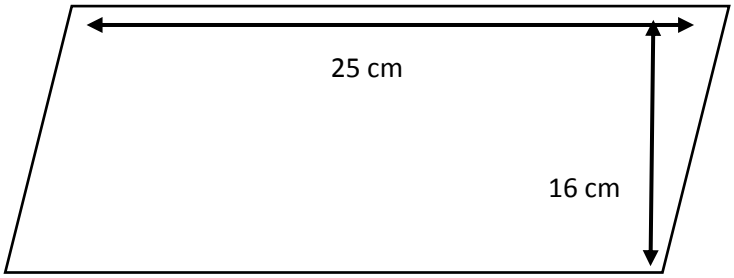
What is the area of this parallelogram?

A=36 cm^2



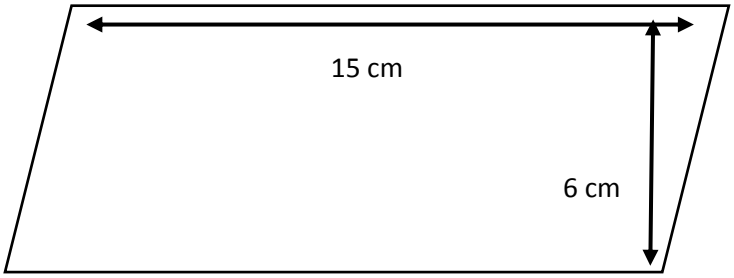
What is the area of parallelogram?

A= 400 cm^2



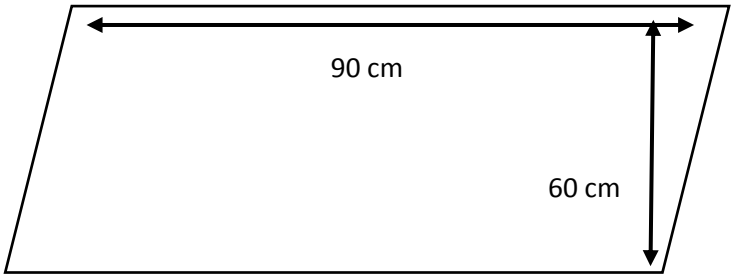
What is the area of this parallelogram?

A=90 cm^2



What is the area of parallelogram?

A=5,400 cm^2

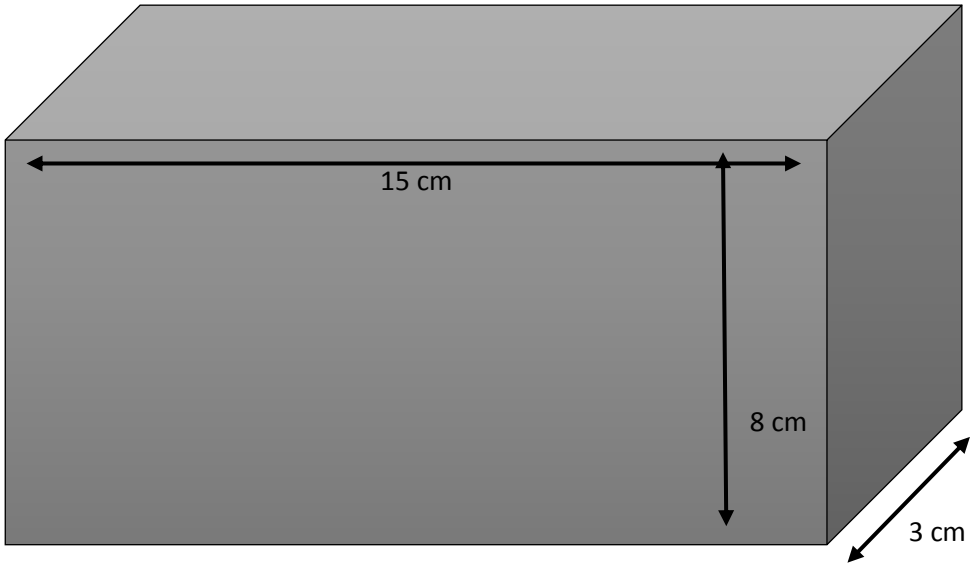


Volume

Volume of a Rectangular Prism
V = l X w X h

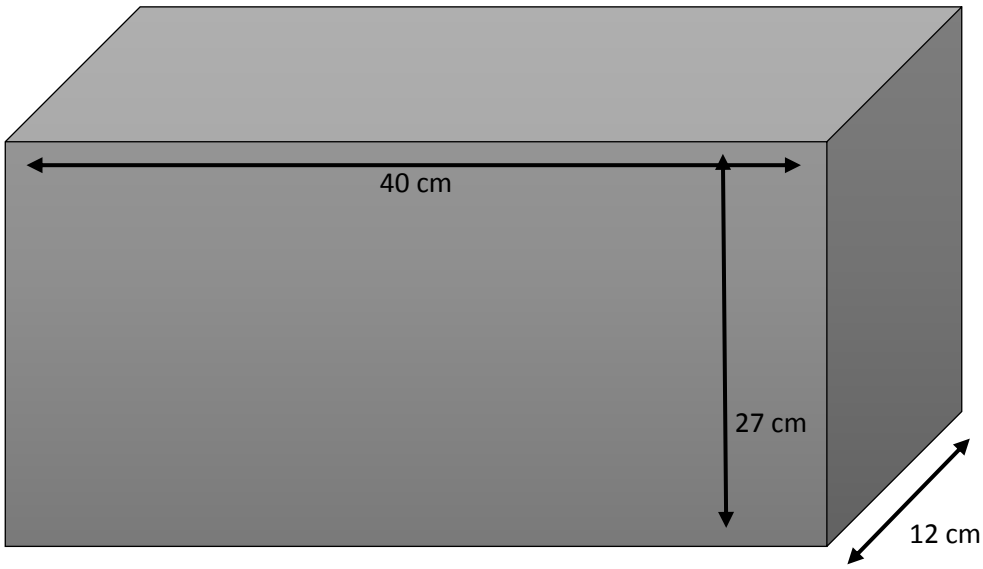
What is the volume of this Rectangular Prism?

V=360 cm^3



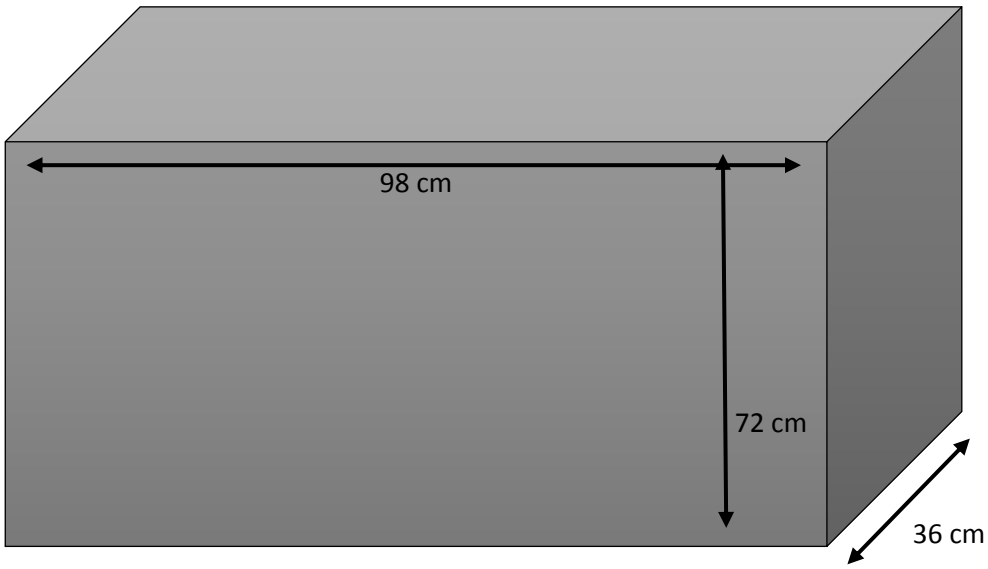
What is the volume of this Rectangular Prism?

V=12,960 cm^3



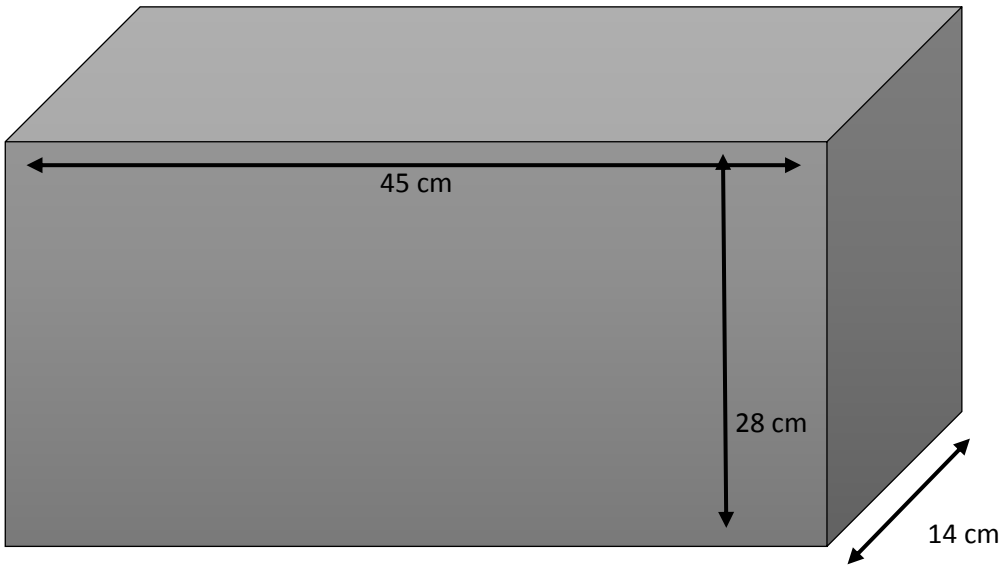
What is the volume of this Rectangular Prism?

V=254,096 cm^3



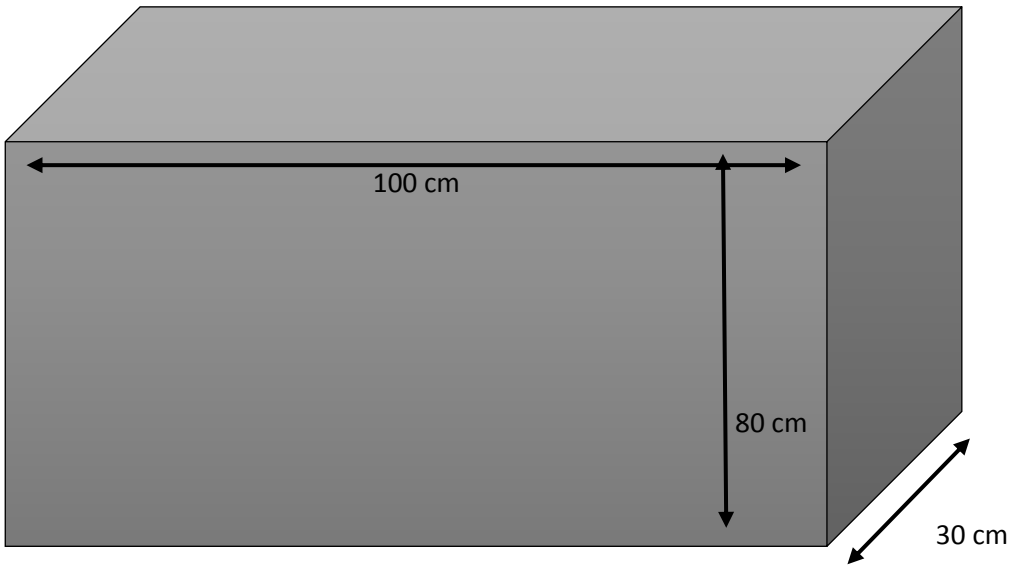
What is the volume of this Rectangular Prism?

V=17,640 cm^3



What is the volume of this Rectangular Prism?

V=240,000 cm^3



Changing U.S. Customary Units

Length	Weight	Capacity
1 ft = 12 in	1 lb = 16 oz	1 gal = 128 fl oz
1 yrd = 3 ft	1 ton = 2,000 lb	1 qt = 2 pt
1 mi = 5,280 ft		1 gal = 8 pt
1 mi = 1,760 yrd		1 gal = 4 qt

Convert.

5 ft = ___60_____in

10 yrd = ___30_____ft

10 mi = ___52,800_____ft

Convert.

25 yrd = ___900_____in

31 mi = ___163,680_____ft

50 mi = ___88,000_____yrd

Convert.

430 yrd = _15,480_____in

780 mi = _4,118,400_____ft

741 mi = __1,304,160_____yrd

Convert.

10 lbs = __160_____oz

76 lbs = __1,216_____oz

50 ton = __100,000____lbs

Convert.

129 lbs = __2,064_____oz

1,340 lbs = __21,440____oz

100 ton = _200,000_____lbs

Convert.

10 lbs = __160_____oz

76 lbs = __1,216_____oz

50 ton = __100,000___lbs

Convert.

10 gal = __1,280_____oz

75 qt = __150_____pt

50 gal = __200_____qt

Convert.

145 gal = _1,160_____pt

58 qt = __116_____pt

523 gal = _2,092_____qt