Name: _____

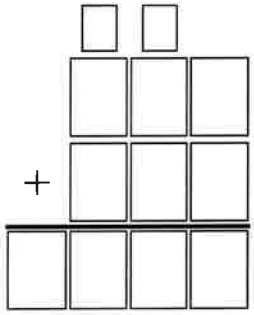
Washington Latin 2nd Street - 5th Grade Summer Math

Dear rising 5th graders, welcome to Washington Latin! We are excited to meet you. This summer math packet is intended to help you practice and review the math skills that you will need in 5th grade. Complete as many questions as you can and circle any questions that you don't understand.

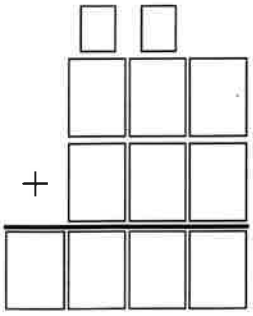
Questions? Email Ms. Pall at epall@latinpcs.org.

This packet is due to Ms. Kolb in math class on Monday, August 31.

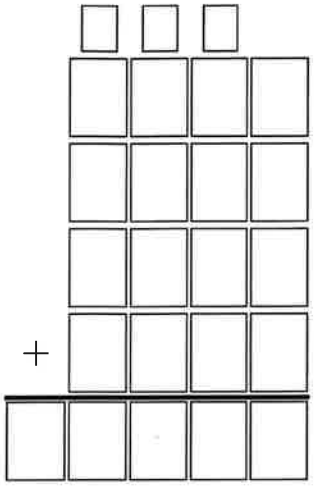
1. Complete the standard algorithm for $998 + 136$, including any "carried," or regrouped digits, if necessary.



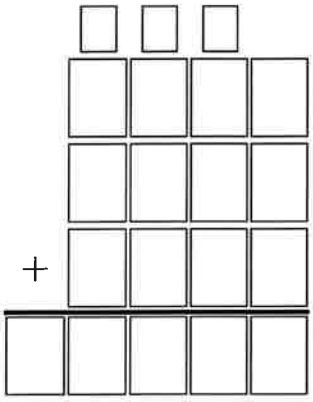
2. Complete the standard algorithm for $768 + 259$, including any "carried," or regrouped digits, if necessary.



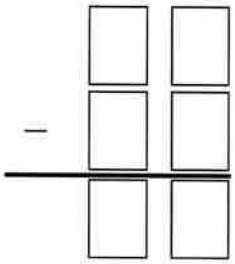
3. Complete the standard algorithm for $4796 + 42 + 3185 + 4893$, including any "carried," or regrouped digits, if necessary.



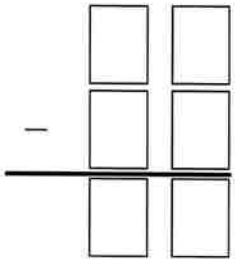
4. Complete the standard algorithm for $7616 + 532 + 7339$, including any "carried," or regrouped digits, if necessary.



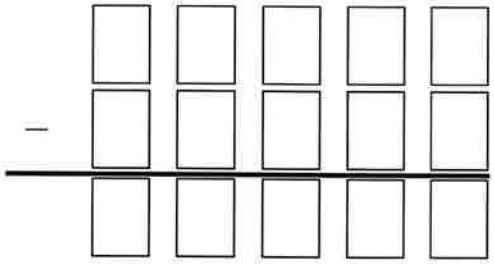
5. Complete the standard algorithm for $65 - 17$, including any "borrowed" digits, if necessary.



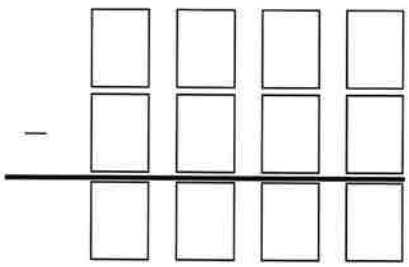
6. Complete the standard algorithm for $96 - 59$, including any "borrowed" digits, if necessary.



7. Complete the standard algorithm for $48336 - 29501$, including any "borrowed" digits, if necessary.



8. Complete the standard algorithm for $3900 - 83$, including any "borrowed" digits, if necessary.



9. What expression (in numbers or words) is equivalent to $258{,}603$?

A. $(2 \times 100{,}000) + (5 \times 10{,}000) + (8 \times 1{,}000) + (6 \times 100) + 3$

B. two hundred eight thousand six hundred thirty

C. two hundred fifty-eight thousand three

D. $(2 \times 100{,}000) + (8 \times 1{,}000) + (6 \times 100) + 3$

10. What number or expression is equivalent to eighty thousand seven hundred forty-six?

A. $80{,}706$

B. $(8 \times 1{,}000) + (4 \times 10) + 6$

C. $(8 \times 10{,}000) + (7 \times 100) + (4 \times 10) + 6$

D. $87{,}006$

11. What number or expression is equivalent to eight hundred thousand five hundred twenty-four?

A. $80{,}024$

B. $(8 \times 100{,}000) + (5 \times 100) + (2 \times 10) + 4$

C. $(8 \times 100{,}000) + (2 \times 10) + 4$

D. $80{,}524$

12. Write a number or expression to represent the value of the digit 6 in the number $2{,}672$.

13. Write a number or expression to represent the value of the digit 1 in the number $1{,}249$.

14. Evaluate: 69×10

15. Evaluate: $770 \div 10$

16. Round 9588 to the nearest hundred.

17. Round 8275 to the nearest ten.

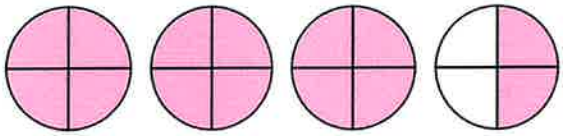
18. Select ALL numbers that round to $391{,}000$ (when rounded to the nearest $1{,}000$).

- ▢ $391{,}308$
- ▢ $390{,}272$
- ▢ $391{,}993$
- ▢ $391{,}560$
- ▢ $391{,}391$
- ▢ $390{,}509$

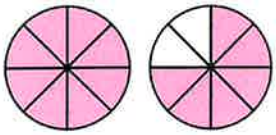
19. Select ALL numbers that round to $640{,}700$ (when rounded to the nearest 100).

- ▢ $640{,}655$
- ▢ $640{,}715$
- ▢ $640{,}652$
- ▢ $640{,}758$
- ▢ $640{,}755$
- ▢ $640{,}723$

20. Assume that each circle shown below represents one unit. Express the shaded amount as an improper fraction and as a mixed number.



21. Assume that each circle shown below represents one unit. Express the shaded amount as an improper fraction and as a mixed number.



22. Simplify: $\frac{42}{80}$

23. Simplify: $\frac{28}{44}$

24. Simplify: $\frac{6}{14}$

25. Convert $8\frac{9}{10}$ into an improper fraction.

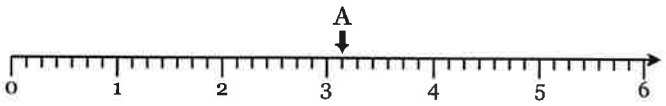
26. Convert $\frac{75}{8}$ into a mixed number.

27. Convert $\frac{17}{2}$ into a mixed number.

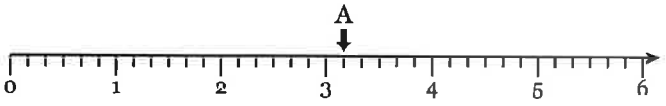
28. Find the fraction the letter A represents on the number line below.

29. Find the fraction the letter A represents on the number line below.

30. Find the proper fraction or mixed number the letter A represents on the number line below.



31. Find the proper fraction or mixed number the letter A represents on the number line below.



32. Solve. Express your answer as a fraction.

$$\frac{2}{9} + \frac{4}{9}$$

33. Solve. Express your answer as a fraction.

$$\frac{6}{7} - \frac{5}{7}$$

34. Solve. Express your answer as a fraction.

$$\frac{3}{7} + \frac{4}{7}$$

35. Rewrite the expression below as a single fraction.

$$30 \times \frac{1}{7}$$

36. Rewrite the expression below as a single fraction.

$$9 \times \frac{3}{6}$$

37. Rewrite the expression below as a single fraction.

$$9 \times \frac{1}{7}$$

38. To prepare for a recital, Abdoulaye practiced the clarinet 6 hours over two weeks. If he practiced $4\frac{1}{6}$ hours the second week, how many hours did he practice the first week?

39. Xavier baked some cakes using $1\frac{2}{3}$ pounds of flour, $1\frac{1}{3}$ pounds of sugar, and $2\frac{2}{3}$ pounds of butter. How much did the ingredients weigh in all?

40. Three friends are sharing 12 cookies equally. Determine the number of cookies each kid would get.

Each kid would get ____ cookies.

41. Five friends are sharing 35 brownies equally. Determine the number of brownies each kid would get.

Each kid would get ____ brownies.

42. Four friends are sharing 20 brownies equally. Determine the number of brownies each kid would get.

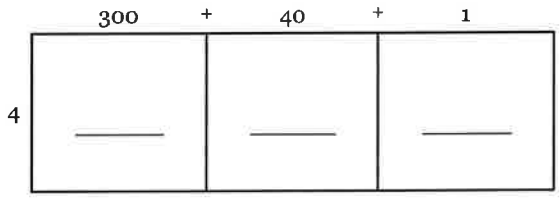
Each kid would get ____ brownies.

43. Eight friends are sharing 3 cookies equally. Determine how many cookies each kid would get. Write your answer as a mixed number or improper fraction in simplest form.

44. Alyssa and her 4 friends share 3 pounds of strawberries equally. How many pounds of strawberries does each kid receive? Write your answer as a mixed number or improper fraction in simplest form.

45. Enter the missing values in the area model for multiplication below.

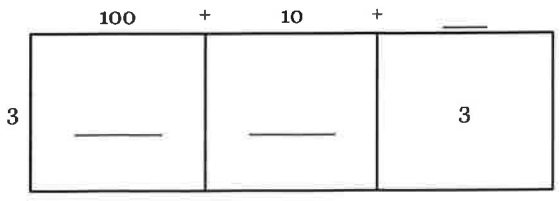
$$4 \times 341$$



According to the model above, $4 \times 341 =$ _____

46. Enter the missing values in the area model for multiplication below.

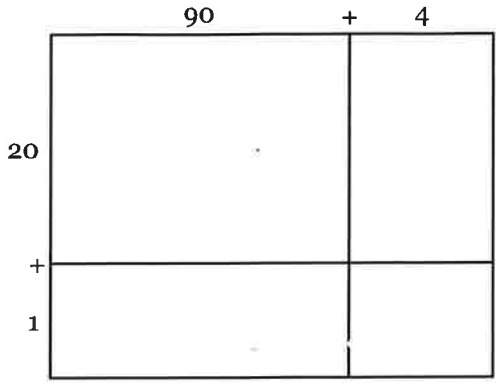
$$3 \times 111$$



According to the model above, $3 \times 111 =$ _____

47. Enter the missing values in the area model for multiplication below.

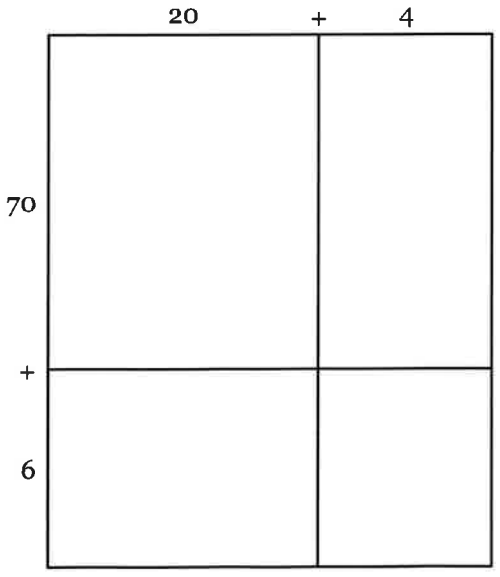
$$21 \times 94$$



According to the model above, $21 \times 94 =$ _____

48. Enter the missing values in the area model for multiplication below.

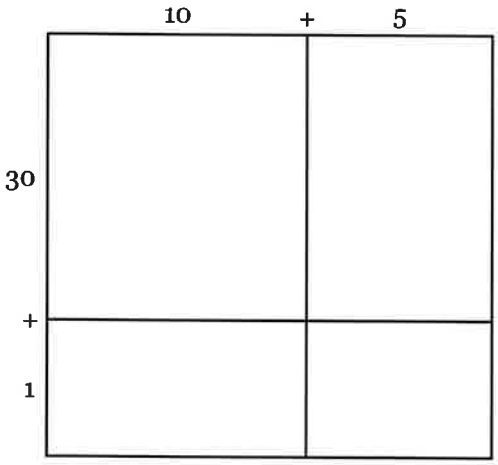
$$76 \times 24$$



According to the model above, $76 \times 24 =$ _____

49. Enter the missing values in the area model for multiplication below.

$$31 \times 15$$



According to the model above, $31 \times 15 =$ ____

50. Complete the standard long division algorithm for $786 \div 3$.

$$3\overline{)7\ 8\ 6}$$

51. Complete the standard long division algorithm for $940 \div 2$.

$$2\overline{)9\ 4\ 0}$$

52. Complete the standard long division algorithm for $976 \div 2$.

$$2\overline{)9\ 7\ 6}$$

53. Circle all the factors of 18 in the hundreds chart below.

1	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
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

54. Circle all the factors of 25 in the hundreds chart below.

1	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
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

55. Without dividing, determine if $18{,}548$ is divisible by 6 and explain how you know.

56. Without dividing, determine if $19{,}245$ is divisible by 3 and explain how you know.

57. Without dividing, determine if $93{,}456$ is divisible by 9 and explain how you know.

58. Without dividing, determine if $36{,}565$ is divisible by 5 and explain how you know.

59. Brandon counts how many stairs he climbs at the gym. Last year, he visited the gym 77 times. He climbed 61 stairs every visit. How many stairs did he climb in all at the gym last year?

60. Gavin sells red and green peppers at a farmer's market. He has 84 red peppers and 89 green peppers. How many peppers does Gavin have all together?

61. Nathan is setting up 16 folding chairs for a recital. He knows that he needs to set up 3 rows, each with an equal number of chairs. Nathan calculates $16 \div 3 = 5 \text{ R } 1$ to find out how many chairs should go in each row. Choose the statement below that best explains his calculation.

A. He can put a maximum of 5 chairs in each of the 3 rows.

B. He can put a maximum of 1 chair in each of the 3 rows.

C. He can put 51 chairs in each of the 3 rows.

D. He can put a maximum of 3 chairs in each of the 3 rows.

62. At field day, one of the activities fourth graders can join is tug of war. Seventy-six kids have signed up. They will form 9 equal teams. Any kids left over will take turns serving as referee. The school principal calculates $76 \div 9 = 8 \text{ R } 4$ to find out how many kids will be on each team. Choose the statement below that best explains his calculation.

A. There can be a maximum of 8 kids on each team.

B. There can be a maximum of 4 kids on each team.

C. There can be 4 kids on each team, with 8 kids serving as referees.

D. There can be a maximum of 84 kids on each team.

63. Alexander measured the height of a mailbox and got 1. Which units would be most reasonable?

A. 1 yard

B. 1 inch

C. 1 mile

D. 1 foot

64. Which of the following is the best unit to measure the distance between two states?

A. kilometers

B. millimeters

C. meters

D. centimeters

65. Which estimate is most reasonable for the volume of a large jug of laundry detergent?

A. 3 cups

B. 3 gallons

C. 3 pints

D. 3 fluid ounces

66. Which estimate is most reasonable for the volume of a large watering can for a garden?

A. 6 quarts

B. 6 cups

C. 6 fluid ounces

D. 6 tablespoons

67. Which unit of measure would be best to use when weighing a handful of patio bricks?

A. tons

B. kilograms

C. ounces

D. grams

68. Which unit of measure is most reasonable to describe the weight of a small pastry?

A. ounces

B. tons

C. pounds

D. kilograms

69. There are 12 inches in a foot. How many feet are 96 inches?

70. There are 8 fluid ounces in a cup. How many fluid ounces are 9 cups?

71. There are $2{,}000$ pounds in a ton. How many pounds are 20 tons?

72. How many centimeters are $3{,}810$ millimeters?

73. How many grams are $48{,}000$ milligrams?

74. There are 12 months in a year. How many months are 13 years?

75. What number or expression is equivalent to twenty and sixty-one thousandths?

A. $(2 \times 10) + (6 \times 0.01) + (1 \times 0.0001)$

B. $(2 \times 10) + (6 \times 0.1) + (1 \times 0.001)$

C. 20.061

D. 20.61

76. What expression (in numbers or words) is equivalent to 75.064?

A. seventy-five and sixty-four hundredths

B. seventy-five and six hundred four thousandths

C. $(7 \times 10) + (5 \times 1) + (6 \times 0.01) + (4 \times 0.001)$

D. $(7 \times 10) + (5 \times 1) + (6 \times 0.01) + (4 \times 0.0001)$

77. What number or expression in words is equivalent to the expression below?

$$(8 \times 10) + (6 \times 1) + \left(2 \times \tfrac{1}{100}\right) + \left(3 \times \tfrac{1}{1{,}000}\right)$$

A. 86.203

B. eighty-six and two hundred three ten-thousandths

C. eighty-six and twenty-three hundredths

D. 86.023

78. Write the numbers below in order from least to greatest. Use commas to separate.

0.8	2.6	3.1	1.7	1.3	3.3

79. Write the numbers below in order from least to greatest. Use commas to separate.

5.1	4.8	4.6	3.9	3.1	4.1

80. Add the two numbers below.

$$0.62 + 0.19$$

81. Add the two numbers below.

$$0.44 + 0.14$$

82. Subtract the two numbers below.

$$0.57 - 0.24$$

83. Subtract the two numbers below.

$$8.6 - 3.3$$

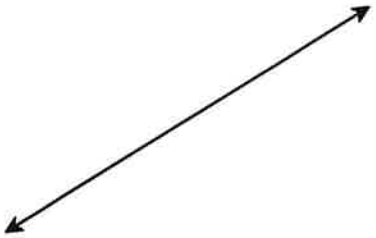
84. Evaluate: $891.96 \div 10$

85. Evaluate: 118.87×10

86. Evaluate: $1271.3 \div 10$

87. Evaluate: 17.617×10

88. Match the most appropriate description to the figure below.



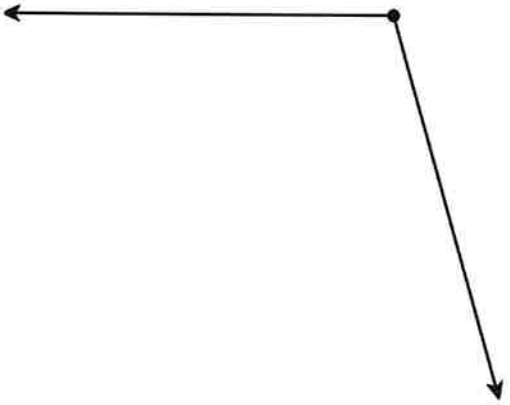
A. Ray

B. Line

C. Angle

D. Line Segment

89. Match the most appropriate description to the figure below.



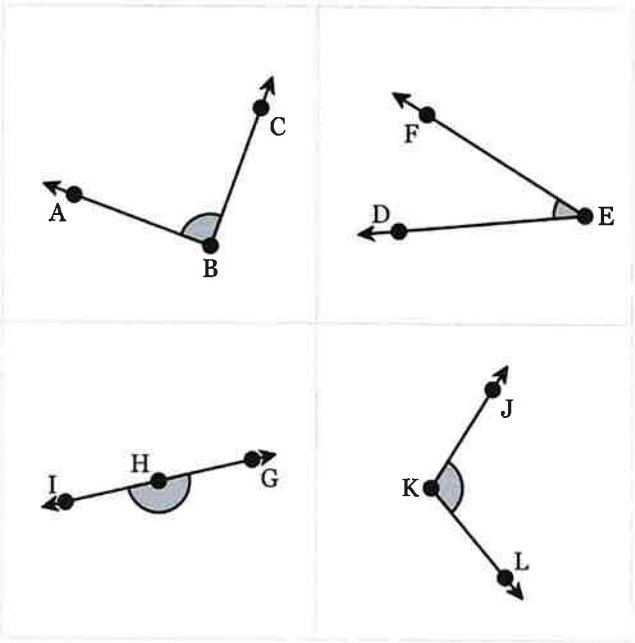
A. Line

B. Angle

C. Ray

D. Line Segment

90. Jack was measuring the angles below. He wrote down four angle measures, but they're all out of order. Match the angle measures to the angles below.



Measures: $37°$, $90°$, $108°$, $180°$

Fill in the correct measures for each angle below:

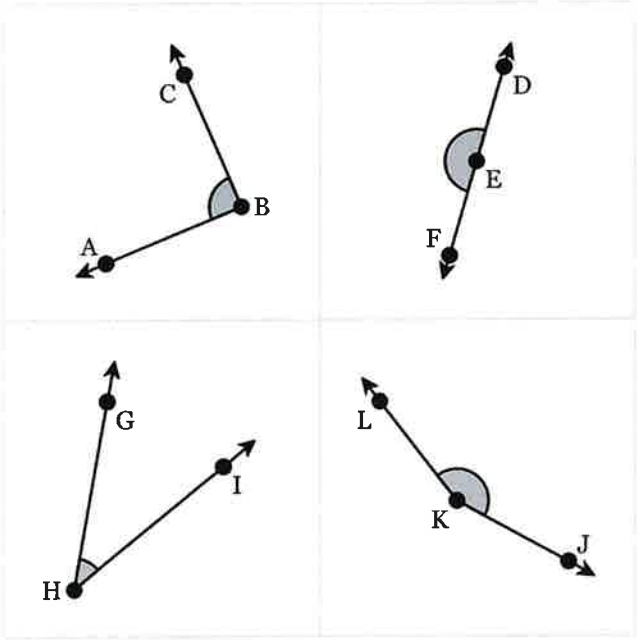
Angle ABC: _____ °

Angle DEF: _____ °

Angle GHI: _____ °

Angle JKL: _____ °

91. Makayla was measuring the angles below. She wrote down four angle measures, but they're all out of order. Match the angle measures to the angles below.



Measures: $40°$, $90°$, $157°$, $180°$

Fill in the correct measures for each angle below:

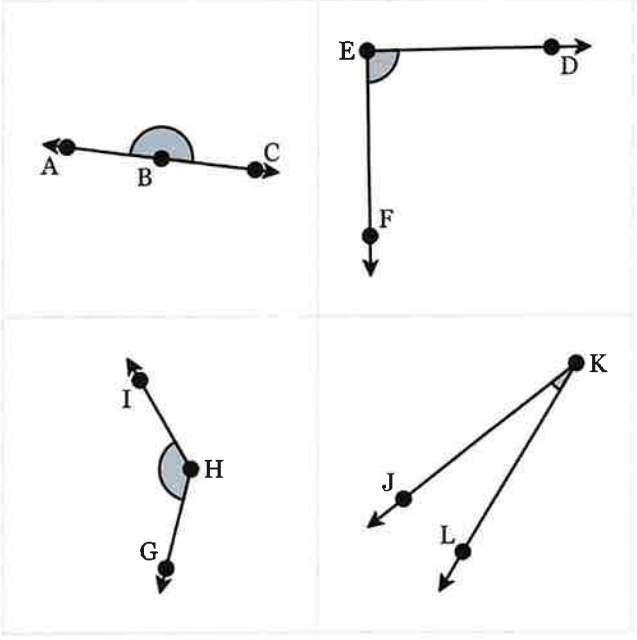
Angle ABC: _____ °

Angle DEF: _____ °

Angle GHI: _____ °

Angle JKL: _____ °

92. Myesha was measuring the angles below. She wrote down four angle measures, but they're all out of order. Match the angle measures to the angles below.



Measures: $21°$, $90°$, $136°$, $180°$

Fill in the correct measures for each angle below:

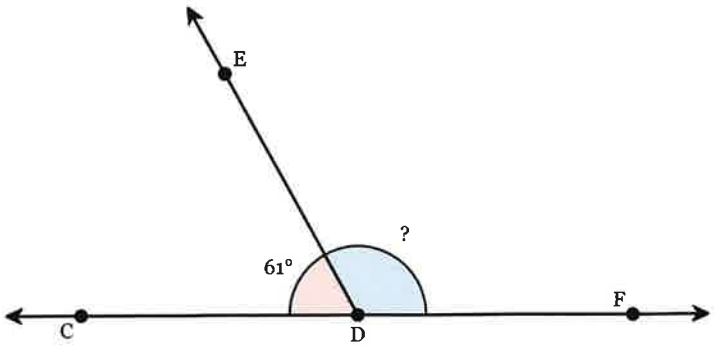
Angle ABC: _____ °

Angle DEF: _____ °

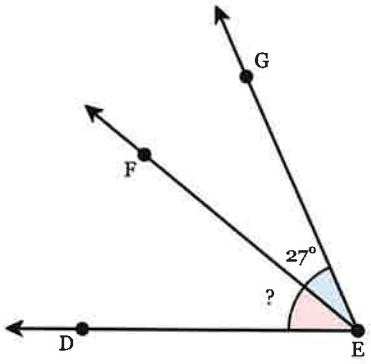
Angle GHI: _____ °

Angle JKL: _____ °

93. Ray DE divides straight angle CDF into two parts as shown below. Find the measure of angle EDF.



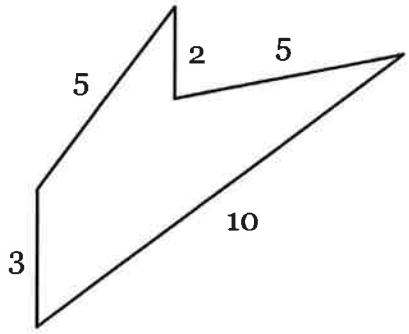
94. The diagram shows angle DEG divided into two angles, DEF and FEG. The measure of angle DEG is $66°$ and the measure of angle FEG is $27°$. Find the measure in degrees of angle DEF.



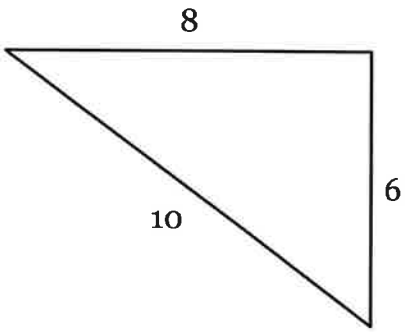
95. What fractional part of a circle is an angle that measures $137°$?

96. What is the measure, in degrees, of an angle that represents $\frac{128}{360}$ of a circle?

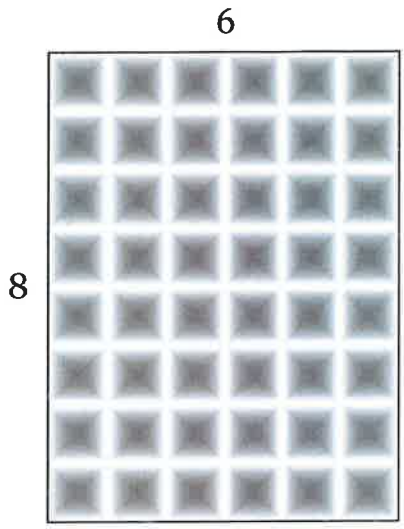
97. Find the perimeter of the shape below.



98. Find the perimeter of the shape below.

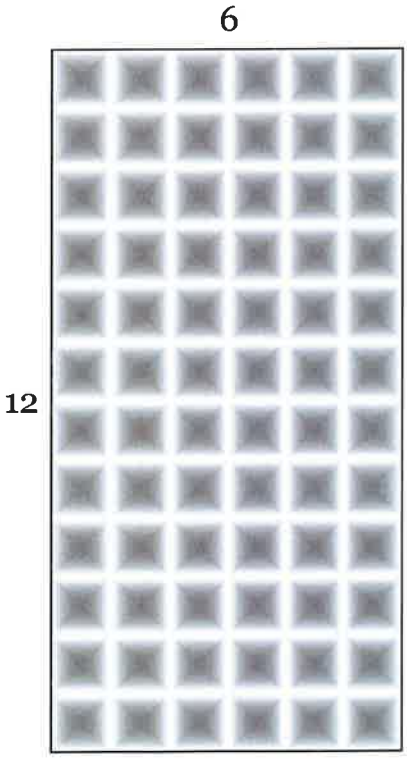


99. A rectangle is shown below. Find its area in square inches.



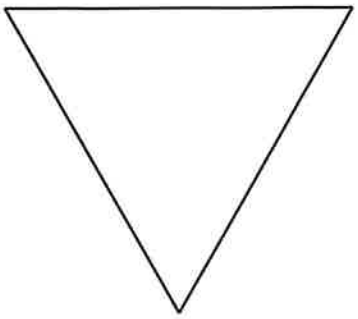
Area = _____ square inches

100. A rectangle is shown below. Find its perimeter in inches.



Perimeter = _____ inches

101. Does the triangle below appear to be scalene, isosceles, or equilateral? Select the best answer choice below and explain why.



The triangle appears to be _____ because _____.

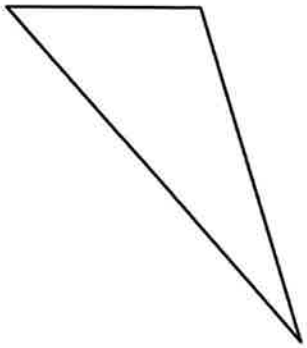
Word Bank 1:	Word Bank 2:
1) scalene	1) no sides have equal length
2) isosceles	2) one pair of sides has the same length
3) equilateral	3) three sides have equal length

102. Does the triangle below appear to be scalene, isosceles, or equilateral? Select the best answer choice below and explain why.

The triangle appears to be _____ because _____.

Word Bank 1:	Word Bank 2:
1) scalene	1) no sides have equal length
2) isosceles	2) one pair of sides has the same length
3) equilateral	3) all sides have the same length

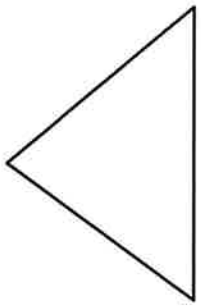
103. Does the triangle below appear to be acute, right, or obtuse? Fill in the sentence below to answer and explain why.



The triangle appears to be _____ because _____.

Word Bank 1:	Word Bank 2:
1) acute	1) it has 3 acute angles
2) right	2) it has a right angle
3) obtuse	3) it has one obtuse angle

104. Does the triangle below appear to be acute, right, or obtuse? Fill in the sentence below to answer and explain why.



The triangle appears to be _____ because _____.

Word Bank 1:

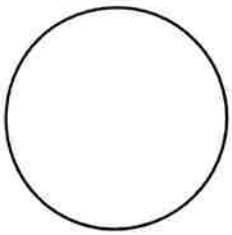
1) acute
2) right
3) obtuse

Word Bank 2:

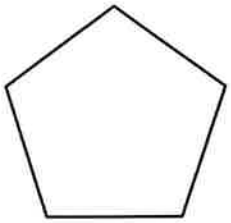
1) all angles are acute
2) one angle measures 90°
3) it has one obtuse angle

105. Select which of the shapes below is a trapezoid and explain why.

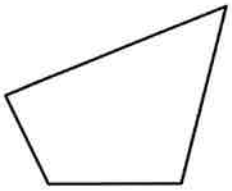
A



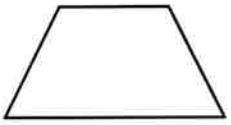
B



C



D

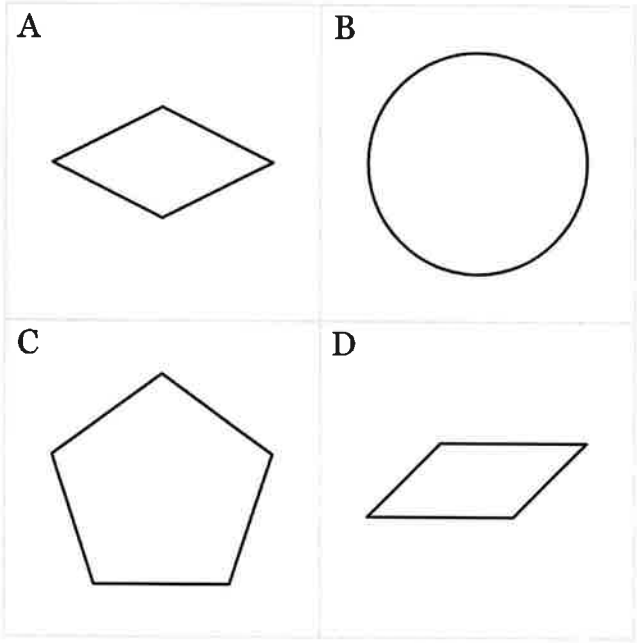


Shape ____ is a trapezoid because it appears to have _____.

Word Bank:

1) four right angles and four equal sides
2) four right angles
3) four equal sides
4) two pairs of parallel sides
5) one pair of parallel sides

106. Select which of the shapes below is a rhombus and explain why.



Shape ____ is a rhombus because it appears to have _____.

Word Bank:

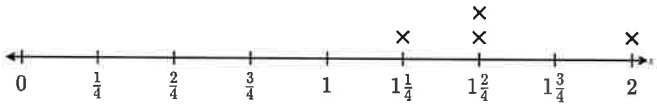
1) four right angles and four equal sides
2) four right angles
3) four equal sides
4) two pairs of parallel sides
5) one pair of parallel sides

107. Read the clock below. What time is it?

108. Read the clock below. What time is it?

109. The line plot below shows the amount of time Jason spent on homework each of the last 4 days. What is the total amount of time Jason spent on homework altogether?

Time Spent on Homework



Time (hours)

Scan the QR code or visit deltamath.com/qr/6QR5L-H72TE to view full solutions.

Multiplication & Division Drills Facts 1-12

1.	10 X 4 =	16.	48 ÷ 3 =
2.	4 X 11 =	17.	33 ÷ 3 =
3.	8 X 3 =	18.	25 ÷ 5 =
4.	4 X 12 =	19.	99 ÷ 3 =
5.	7 X 10 =	20.	42 ÷ 6 =
6.	11 X 10 =	21.	7 ÷ 7 =
7.	9 X 9 =	22.	9 ÷ 3 =
8.	7 X 2 =	23.	84 ÷ 7 =
9.	6 X 6 =	24.	12 ÷ 3 =
10.	6 X 11 =	25.	18 ÷ 2 =
11.	2 X 3 =	26.	62 ÷ 2 =
12.	12 X 10 =	27.	143 ÷ 11 =
13.	11 X 6 =	28.	77 ÷ 11 =
14.	4 X 7 =	29.	44 ÷ 11 =
15.	6 X 7 =	30.	84 ÷ 4 =

Name:

Date:

Multiplication & Division Drills Facts 1-12

31.	11	X 5 =	46.	72	÷ 9 =
32.	12	X 11 =	47.	69	÷ 3 =
33.	2	X 10 =	48.	120	÷ 5 =
34.	8	X 4 =	49.	33	÷ 11 =
35.	11	X 7 =	50.	138	÷ 2 =
36.	6	X 5 =	51.	120	÷ 4 =
37.	10	X 4 =	52.	78	÷ 2 =
38.	3	X 8 =	53.	57	÷ 3 =
39.	4	X 7 =	54.	30	÷ 2 =
40.	11	X 2 =	55.	82	÷ 2 =
41.	4	X 3 =	56.	84	÷ 3 =
42.	4	X 5 =	57.	90	÷ 3 =
43.	12	X 4 =	58.	74	÷ 2 =
44.	5	X 10 =	59.	48	÷ 12 =
45.	6	X 4 =	60.	24	÷ 8 =

Name:

Date:

Multiplication & Division Drills Facts 1-12

61.	9	X	9	=	76.	45	÷	5	=
62.	5	X	6	=	77.	10	÷	5	=
63.	3	X	12	=	78.	99	÷	11	=
64.	9	X	8	=	79.	45	÷	3	=
65.	4	X	7	=	80.	123	÷	3	=
66.	3	X	10	=	81.	108	÷	4	=
67.	6	X	2	=	82.	40	÷	8	=
68.	8	X	4	=	83.	116	÷	4	=
69.	2	X	2	=	84.	12	÷	6	=
70.	2	X	4	=	85.	3	÷	3	=
71.	4	X	6	=	86.	105	÷	5	=
72.	7	X	8	=	87.	35	÷	5	=
73.	7	X	7	=	88.	80	÷	4	=
74.	6	X	3	=	89.	78	÷	2	=
75.	7	X	12	=	90.	30	÷	3	=

Name:

Date:

Multiplication & Division Drills Facts 1-12

91.	8	X	2	=			
92.	2	X	9	=			
93.	11	X	7	=			
94.	5	X	7	=			
95.	6	X	7	=			
96.	3	X	12	=			
97.	2	X	4	=			
98.	2	X	11	=			
99.	12	X	7	=			
100.	10	X	2	=			
101.	7	X	9	=			
102.	12	X	10	=			
103.	5	X	9	=			
104.	5	X	6	=			
105.	12	X	5	=			

106.	91	÷	7	=			
107.	28	÷	7	=			
108.	78	÷	3	=			
109.	100	÷	10	=			
110.	80	÷	8	=			
111.	120	÷	5	=			
112.	144	÷	4	=			
113.	51	÷	3	=			
114.	96	÷	2	=			
115.	6	÷	6	=			
116.	81	÷	3	=			
117.	9	÷	3	=			
118.	132	÷	6	=			
119.	90	÷	3	=			
120.	102	÷	3	=			

Name:

Date:

Multiplication & Division Drills Facts 1-12

121.	3	X	7	=			
122.	8	X	3	=			
123.	2	X	2	=			
124.	10	X	11	=			
125.	9	X	3	=			
126.	7	X	2	=			
127.	12	X	6	=			
128.	7	X	8	=			
129.	5	X	10	=			
130.	5	X	3	=			
131.	4	X	6	=			
132.	10	X	12	=			
133.	5	X	9	=			
134.	9	X	9	=			
135.	2	X	8	=			

136.	4	÷	4	=			
137.	60	÷	12	=			
138.	144	÷	4	=			
139.	8	÷	8	=			
140.	66	÷	11	=			
141.	62	÷	2	=			
142.	6	÷	6	=			
143.	16	÷	4	=			
144.	60	÷	10	=			
145.	60	÷	5	=			
146.	64	÷	8	=			
147.	66	÷	6	=			
148.	108	÷	9	=			
149.	92	÷	4	=			
150.	78	÷	6	=			

Name:

Date:

Multiplication & Division Drills Facts 1-12

151.	9	X	8	=			
152.	2	X	5	=			
153.	7	X	5	=			
154.	10	X	12	=			
155.	9	X	12	=			
156.	6	X	2	=			
157.	9	X	6	=			
158.	9	X	4	=			
159.	3	X	12	=			
160.	3	X	6	=			
161.	7	X	8	=			
162.	8	X	11	=			
163.	2	X	4	=			
164.	2	X	3	=			
165.	12	X	2	=			

166.	8	÷	2	=			
167.	5	÷	5	=			
168.	58	÷	2	=			
169.	138	÷	3	=			
170.	36	÷	2	=			
171.	50	÷	2	=			
172.	120	÷	12	=			
173.	84	÷	4	=			
174.	108	÷	6	=			
175.	28	÷	4	=			
176.	105	÷	7	=			
177.	51	÷	3	=			
178.	84	÷	12	=			
179.	100	÷	2	=			
180.	40	÷	4	=			

Name:

Date: