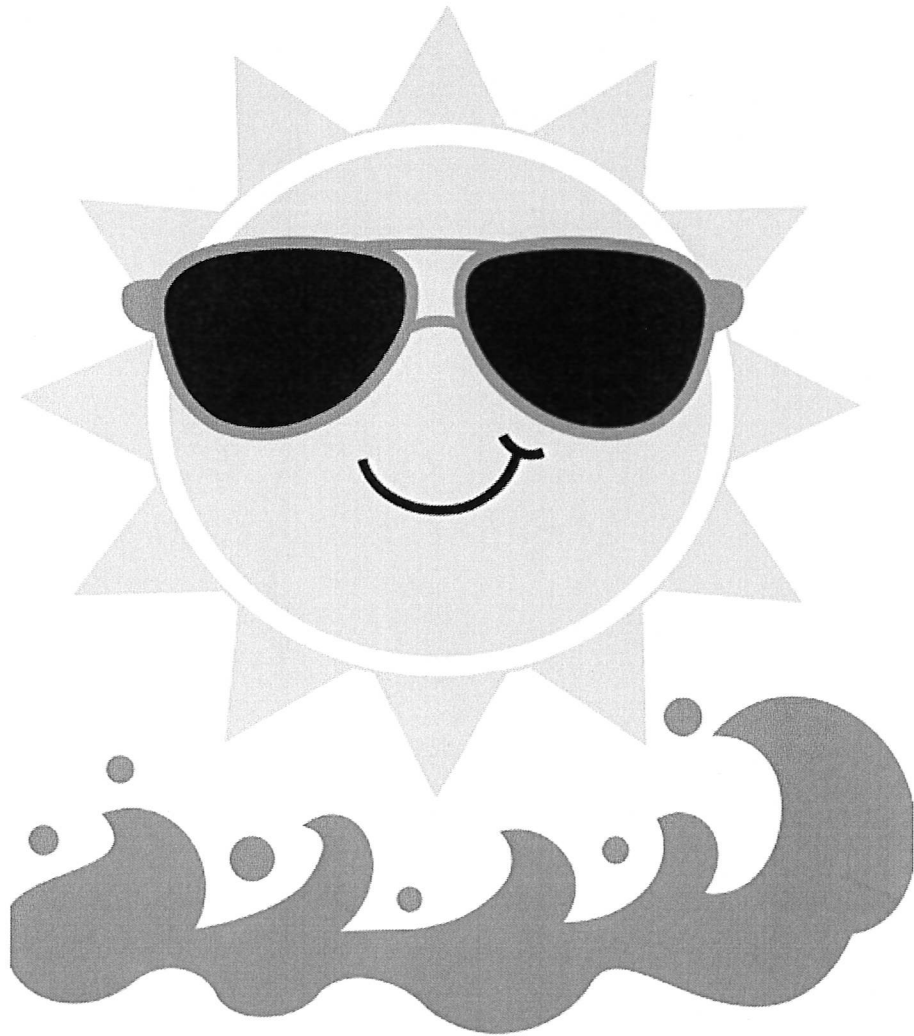


SUMMER MATH PACKET



7th Grade to 8th Grade Math

Name: _____

Summer Math Work Expectations (7th grade math to 8th grade math)

The materials provided for summer math work are designed as a comprehensive review of key concepts from 8th grade mathematics, for those entering 8th grade math. This assignment is intended to help reinforce specific skills to ensure you are prepared for your transition into math for the 2025-2026 school year. Completing this review will support a smoother start to the school year by refreshing essential topics such as basic math facts, number sense, and problem-solving strategies.

It is highly recommended that you complete the summer math practice.

In addition to completing the summer math packet, it will be to your advantage to have the following memorized:

Divisibility Rules: If you can divide two numbers without a remainder, then the first number is divisible by the second.

Divisibility rules can help you easily decide if a number is divisible by another number.

IS DIVISIBLE BY THE NUMBER IF	
2	Number ends in 0 or is even
3	Sum of Numbers Divisible by 3
4	The last two digits are divisible by 4
5	Ends in 5 or 0
6	it is even and is divisible by 3
7	Double the last digit and subtract it from a number made by the other digits. The result must be divisible by 0 or 7
8	last 3 digits are divisible by 8
9	Sum of the digits are divisible by 9
10	Ends in 0

Multiplication Table facts 1 x 1 through 15 x 15

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
4	8	12	16	20	24	28	32	36	40	44	48	52	56	60
5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
7	14	21	28	35	42	49	56	63	70	77	84	91	98	105
8	16	24	32	40	48	56	64	72	80	88	96	104	112	120
9	18	27	36	45	54	63	72	81	90	99	108	117	126	135
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
11	22	33	44	55	66	77	88	99	110	121	132	143	154	165
12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
13	26	39	52	65	78	91	104	117	130	143	156	169	182	195
14	28	42	56	70	84	98	112	126	140	154	168	182	196	210
15	30	45	60	75	90	105	120	135	150	165	180	195	210	225

Perfect Squares

$$\begin{array}{lll} 1^2 = 1 & 5^2 = 25 & 9^2 = 81 \\ 2^2 = 4 & 6^2 = 36 & 10^2 = 100 \\ 3^2 = 9 & 7^2 = 49 & 11^2 = 121 \\ 4^2 = 16 & 8^2 = 64 & 12^2 = 144 \end{array}$$

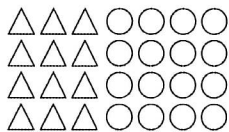
Perfect Cubes

$$\begin{array}{ll} 1^3 = 1 & 6^3 = 216 \\ 2^3 = 8 & 7^3 = 343 \\ 3^3 = 27 & 8^3 = 512 \\ 4^3 = 64 & 9^3 = 729 \\ 5^3 = 125 & 10^3 = 1000 \end{array}$$

Summer Math: 7th to 8th grade Math

Show all necessary work for each problem. All of these skills are review concepts from 7th grade math. The QR solution code is on the last page. Khan Academy can be a useful refresher resource!

1. Find the ratio of triangles to circles in the diagram below.

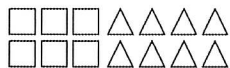


Unsimplified ratio of triangles to circles:

 :

For every 3 triangles there are _____ circles, therefore the simplified ratio of triangles to circles is _____ : _____.

2. Find the ratio of squares to total shapes in the diagram below.



Unsimplified ratio of squares to total shapes:

 :

For every 3 squares there are _____ total shapes, therefore the simplified ratio of squares to total shapes is _____ : _____.

Name: _____

3. Find the ratio of triangles to circles in the diagram below.



Unsimplified ratio of triangles to circles:

 :

For every 3 triangles there are _____ circles, therefore the simplified ratio of triangles to circles is _____ : _____.

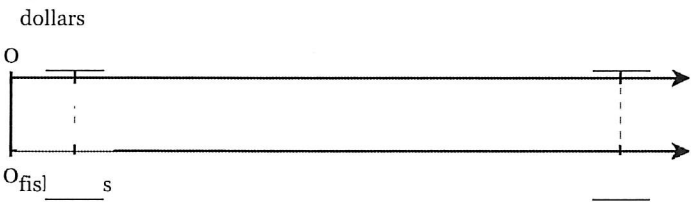
4. Find an equivalent ratio in simplest terms: 48 : 20

5. Find an equivalent ratio in simplest terms: 18 : 64

6. Find an equivalent ratio in simplest terms: 55 : 33

7. Isaiah earned \$237.00 at his job when he worked for 10 hours. How much money did he earn each hour?

8. Camden bought 22 fish sticks for \$24.20. What was the cost of the fish sticks, in dollars per fish stick? On the double number line below, fill in the given values, then use multiplication or division to find the missing value.



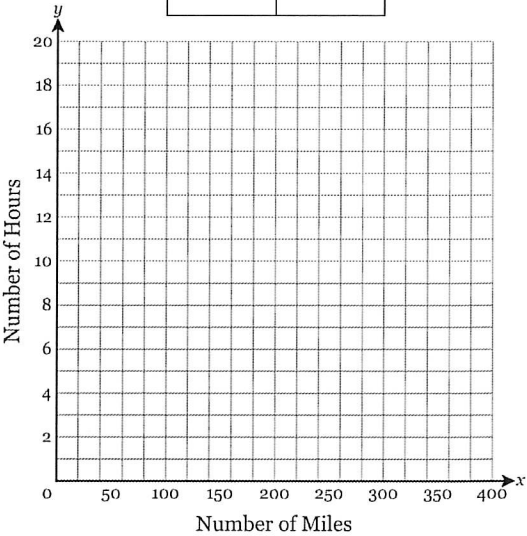
9. Josiah's car used 10 gallons to travel 250 miles. How far can he travel on 7 gallons?

10. Annabelle bought 20 fish sticks for \$32.00. If Annabelle spent \$17.60, how many fish sticks did she buy?

11. A grocery store sells a bag of 7 oranges for \$2.24. If Jaxon spent \$3.52 on oranges, how many did he buy?

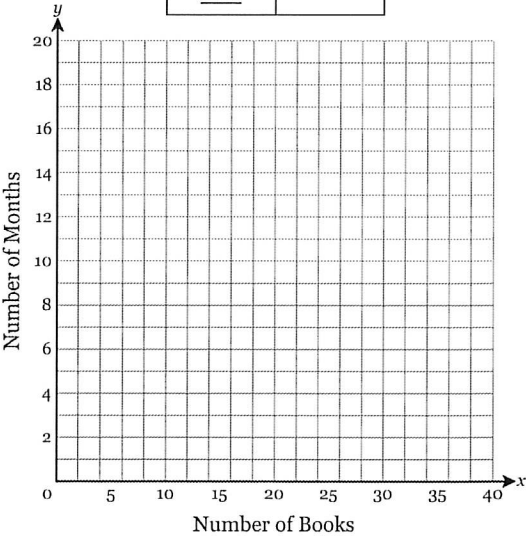
12. Aaliyah drove 381 miles in 6 hours. Fill out a table of equivalent ratios and plot the points on the coordinate axes provided.

Miles	Hours
127	_____
_____	4
381	6



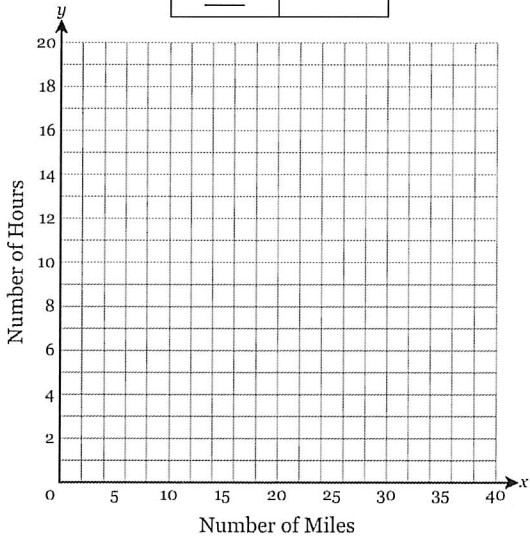
13. Enola read 9 books in 3 months. Fill out a table of equivalent ratios and plot the points on the coordinate axes provided.

Books	Months
3	_____
9	3
_____	8

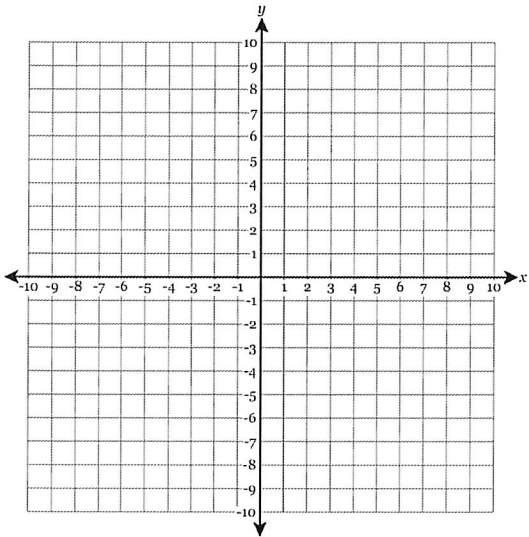


14. Aisha walked 6 miles in 4 hours. Fill out a table of equivalent ratios and plot the points on the coordinate axes provided.

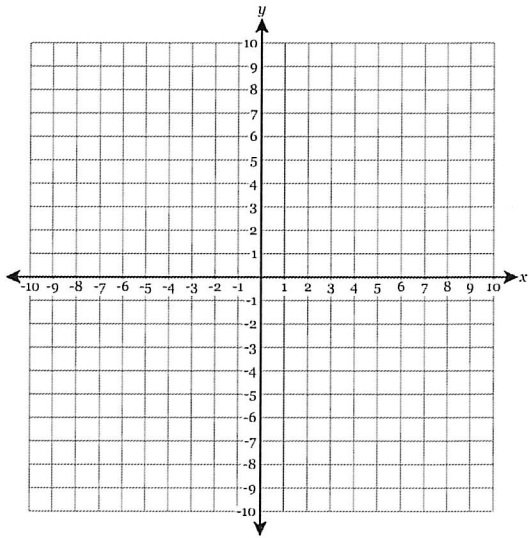
Miles	Hours
3	_____
6	4
_____	16



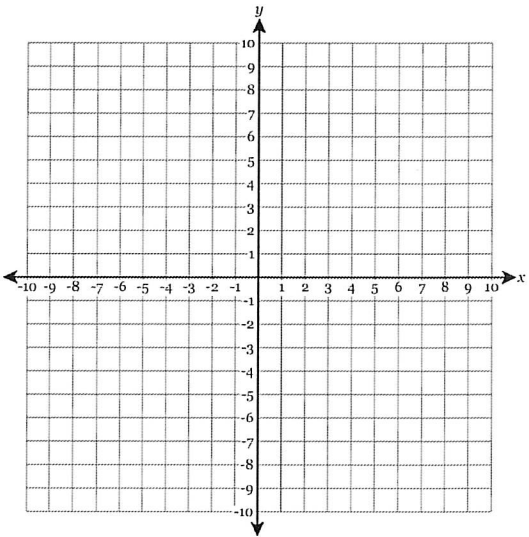
15. Plot the point $(-4, -7)$.



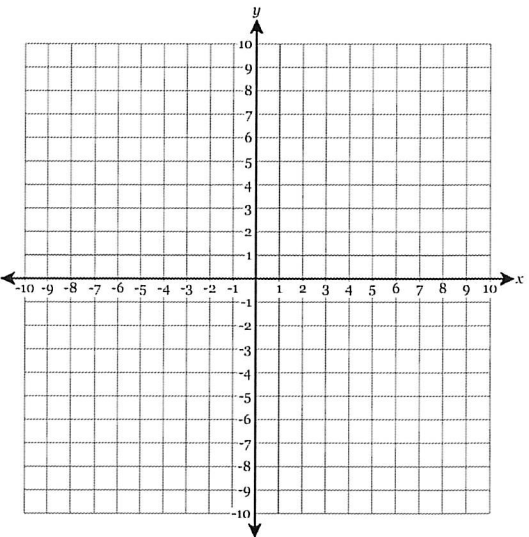
16. Plot the point $(8, 2)$.



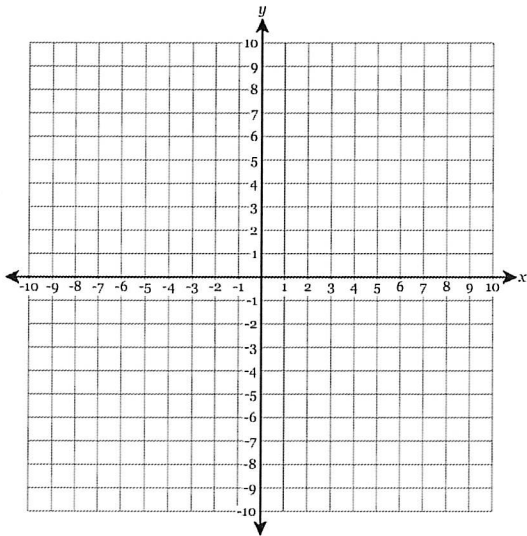
17. Plot the point $(8, 1)$.



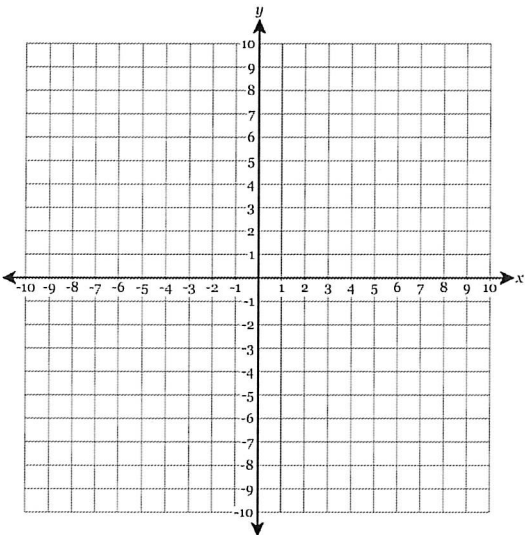
18. Plot the point $(-1, 0)$.



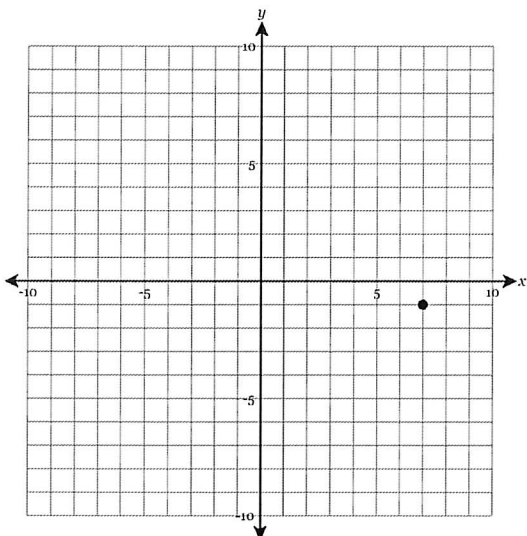
19. Plot the point $(-1, -5)$.



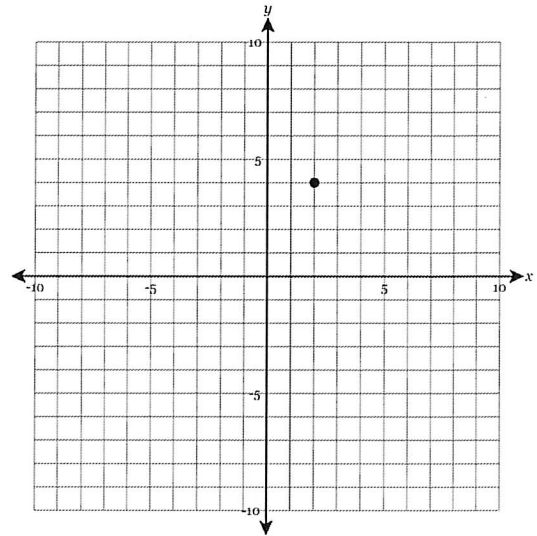
20. Plot the point $(-3, 0)$.



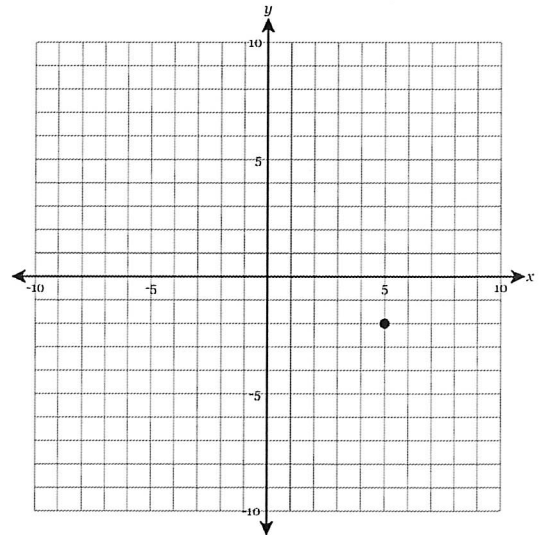
21. State the coordinates of the point.



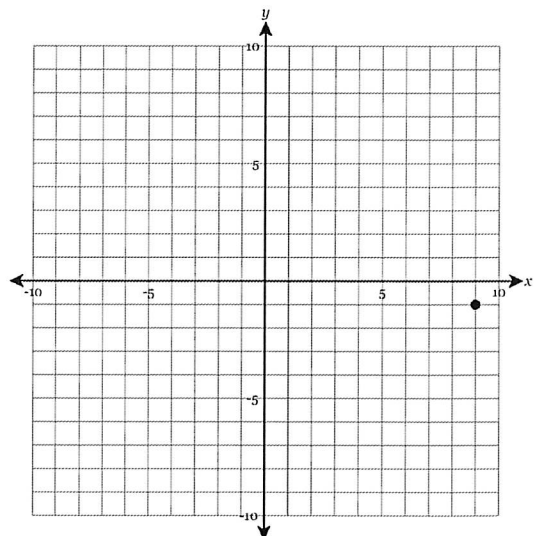
22. State the coordinates of the point.



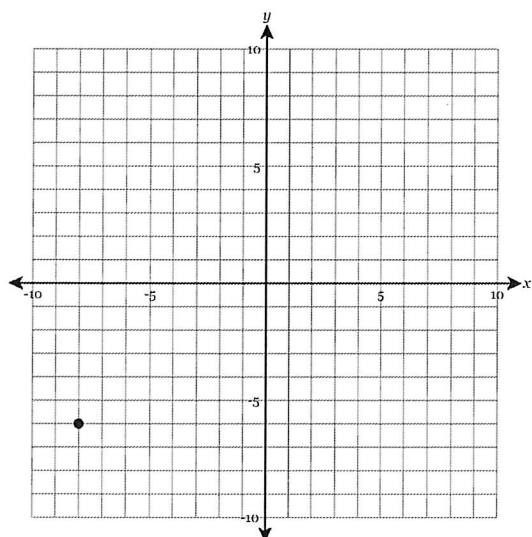
23. State the coordinates of the point.



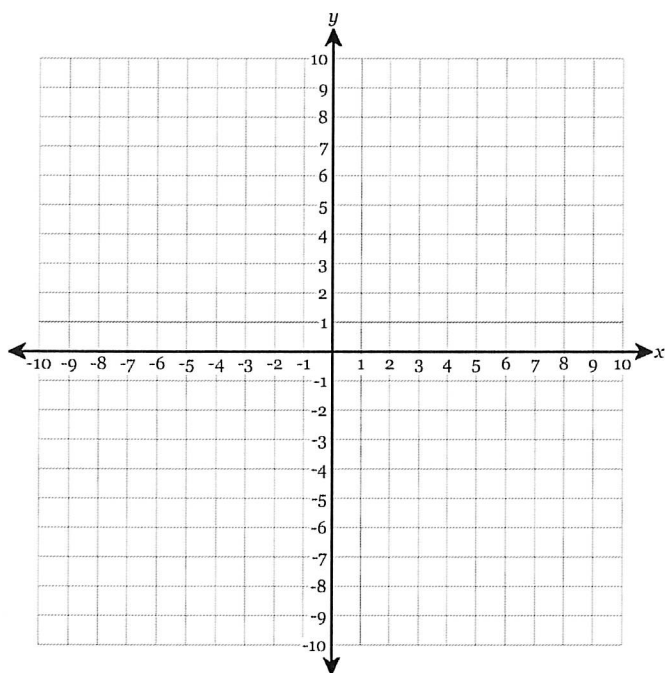
24. State the coordinates of the point.



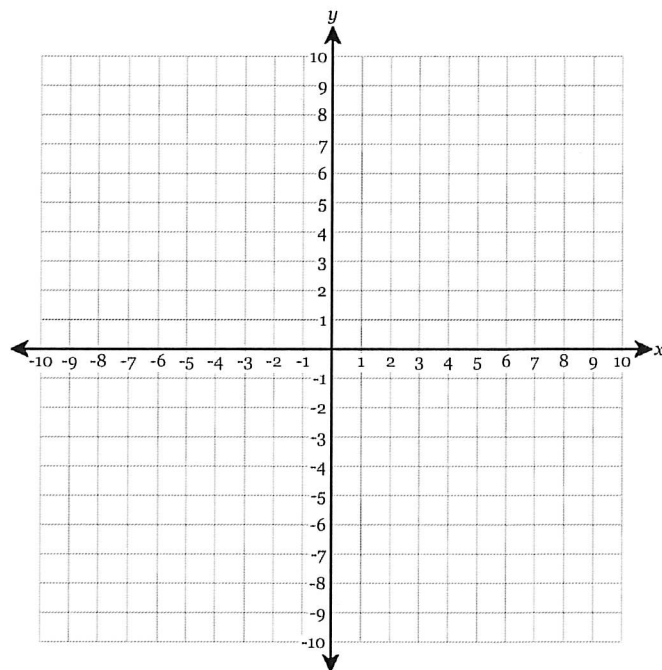
25. State the coordinates of the point.



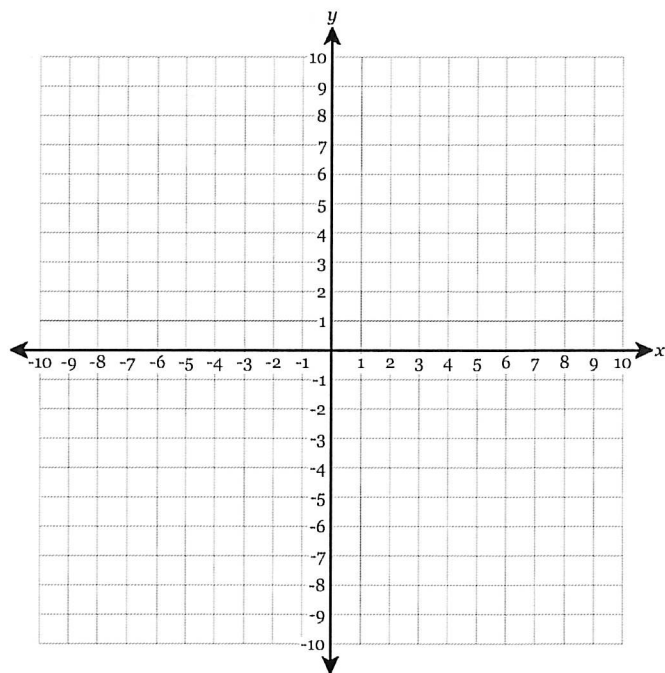
26. Plot the points $(-2, -4)$ and $(9, -4)$. Then find the horizontal distance between them.



27. Plot the points $(8, -8)$ and $(8, 8)$. Then find the vertical distance between them.



28. Plot the points $(-4, 3)$ and $(-8, 3)$. Then find the horizontal distance between them.



29. The coordinates of the point P are $(-8, -5)$ and the coordinates of point Q are $(-8, -1)$. What is the distance, in units, between the point P and point Q ?

30. The coordinates of the point D are $(10, -6)$ and the coordinates of point E are $(2, -6)$. What is the distance, in units, between the point D and point E ?

31. A triangle has vertices on a coordinate grid at $R(6, -8)$, $S(6, 10)$, and $T(0, 10)$. What is the length, in units, of \overline{RS} ?

32. In which quadrant does the point $(-5, -4)$ lie?

- A. Quadrant 1
- B. Quadrant 2
- C. Quadrant 3
- D. Quadrant 4

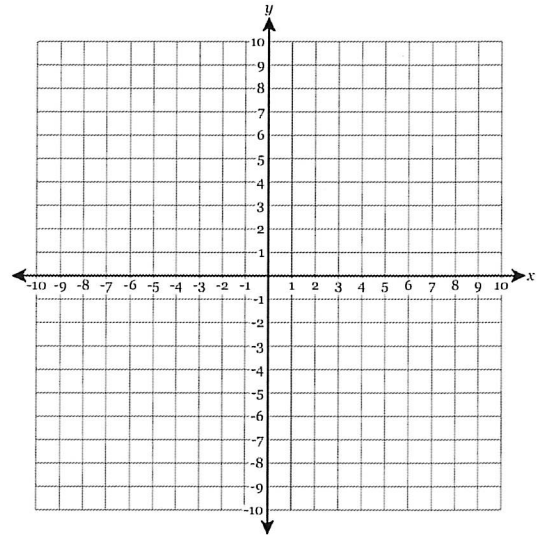
33. Select the point which lies in the third quadrant.

- A. $(-2, 3)$
- B. $(8, -1)$
- C. $(-3, -5)$
- D. $(3, 8)$

34. Select the point which lies in the first quadrant.

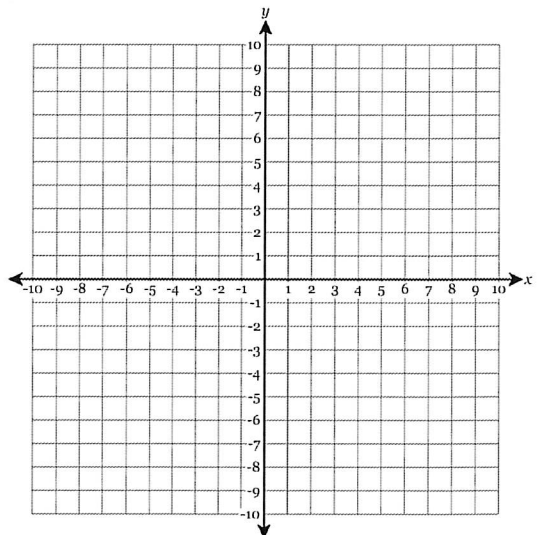
- A. $(-7, 4)$
- B. $(-7, -8)$
- C. $(2, -7)$
- D. $(7, 1)$

35. Plot and connect the points in the order listed below. When you are done, choose the word that best identifies the resulting shape/polygon. $A(-1, -1)$, $B(2, 3)$, $C(6, 3)$



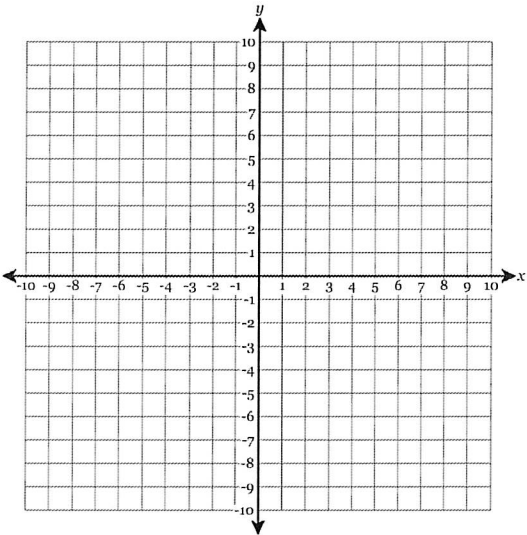
- A. Pentagon
- B. Triangle (Right)
- C. Triangle (Obtuse)
- D. Quadrilateral (Rectangle)
- E. Quadrilateral (Parallelogram)

36. Plot and connect the points in the order listed below. When you are done, choose the word that best identifies the resulting shape/polygon. $A(-1, -5)$, $B(2, 2)$, $C(6, 2)$, $D(3, -5)$



- A. Triangle (Obtuse)
- B. Hexagon
- C. Quadrilateral (Rectangle)
- D. Triangle (Acute)
- E. Quadrilateral (Parallelogram)

37. Plot and connect the points in the order listed below. When you are done, choose the word that best identifies the resulting shape/polygon. $A(-2, 0)$, $B(7, 0)$, $C(3, -4)$, $D(7, -7)$, $E(-2, -7)$



- A. Triangle (Right)

C. Hexagon

E. Quadrilateral (Rectangle)
- B. Pentagon

D. Quadrilateral (Parallelogram)

38. Complete the standard multiplication algorithm for 934×396 , including any “carried,” or regrouped digits, if necessary.

×

39. Complete the standard multiplication algorithm for 924×327 , including any “carried,” or regrouped digits, if necessary.

×

40. Complete the standard multiplication algorithm for 432×958 , including any “carried,” or regrouped digits, if necessary.

×

41. Complete the standard multiplication algorithm for 5.2×0.46 , including any “carried,” or regrouped digits, if necessary.

$$\begin{array}{r} 5.2 \\ \times 0.46 \\ \hline \end{array}$$

42. Complete the standard multiplication algorithm for 52×0.27 , including any “carried,” or regrouped digits, if necessary.

$$\begin{array}{r} 52 \\ \times 0.27 \\ \hline \end{array}$$

43. Complete the standard multiplication algorithm for 59×8.1 , including any “carried,” or regrouped digits, if necessary.

$$\begin{array}{r} 59 \\ \times 8.1 \\ \hline \end{array}$$

44. Without dividing, determine if 58,812 is divisible by 6 and explain how you know.

45. Without dividing, determine if 25,445 is divisible by 5 and explain how you know.

46. Without dividing, determine if 48,548 is divisible by 2 and explain how you know.

47. Without dividing, determine if 11,738 is divisible by 4 and explain how you know.

48. Without dividing, determine if **34,062** is divisible by 3 and explain how you know.

49. Without dividing, determine if **63,254** is divisible by 9 and explain how you know.

50. Without dividing, determine if **27,753** is divisible by 3 and explain how you know.

51. Without dividing, determine if **56,548** is divisible by 4 and explain how you know.

52. Without dividing, determine if **36,565** is divisible by 5 and explain how you know.

53. Without dividing, determine if **18,448** is divisible by 4 and explain how you know.

54. Use multiplication to expand the expression below. Then compute.

$$0^2$$

55. Use an exponent to condense the expression below. Then compute.

$$6 \times 6 \times 6 \times 6$$

56. Use multiplication to expand the expression below. Then compute.

$$8^3$$

57. Use multiplication to expand the expression below. Then compute.

$$(-6)^5$$

58. Use an exponent to condense the expression below. Then compute.

$$-7 \times -7$$

59. Use multiplication to expand the expression below. Then compute.

$$(-7)^2$$

60. What is the value of the expression $3^4 + 6 \times 7$?

61. What is the value of the expression $5 \times 10 + 4 + 5 \times 4^2$?

62. What is the value of the expression $\frac{65+4^2}{3^3}$?

63. Identify the property that justifies each step asked about in the answer area below.

Line 1: $q(p + 3)$

Line 2: $qp + q \cdot 3$

Line 3: $pq + 3q$

Line 1 to Line 2:

Line 2 to Line 3:

64. Identify the property that justifies each step asked about in the answer area below.

Line 1: $(x + 10)(9 + 8x)$

Line 2: $(x + 10)(8x + 9)$

Line 3: $(8x + 9)(x + 10)$

Line 1 to Line 2:

Line 2 to Line 3:

65. Identify the property that justifies each step asked about in the answer area below.

Line 1: $10(5 + 9x)$

Line 2: $10(9x + 5)$

Line 3: $90x + 50$

Line 1 to Line 2:

Line 2 to Line 3:

66. Identify the property that justifies each step asked about in the answer area below.

Line 1: $(7 + 10x) + 3$

Line 2: $(10x + 7) + 3$

Line 3: $10x + (7 + 3)$

Line 4: $10x + 10$

Line 1 to Line 2:

Line 2 to Line 3:

67. Identify the property that justifies each step asked about in the answer area below.

Line 1: $(8x)(4y)$

Line 2: $8 \cdot (x \cdot 4) \cdot y$

Line 3: $8 \cdot (4 \cdot x) \cdot y$

Line 4: $(8 \cdot 4)(x \cdot y)$

Line 5: $32xy$

Line 1 to Line 2:

Line 2 to Line 3:

Line 3 to Line 4:

68. Represent the following sentence as an algebraic expression, where "a number" is the letter x .

1 is decreased by a number.

69. Represent the following sentence as an algebraic expression, where "a number" is the letter x .

5 less than a number.

70. Represent the following phrase as an algebraic expression, where "a number" is the letter x . You do not need to simplify.

Four times the difference of 8 and a number.

71. Represent the following phrase as an algebraic expression, where "a number" is the letter x . You do not need to simplify.

The difference of 1 and the square of a number.

72. Represent the following phrase as an algebraic expression, where "a number" is the letter x . You do not need to simplify.

8 plus the cube of a number.

73. Which equation has the solution $x = 4$?

A. $4x - 4 = 12$ B. $9x + 2 = -38$

C. $4x - 3 = 41$ D. $5x - 1 = 46$

74. What value of x makes the equation below true?

$$9x - 10 = 53$$

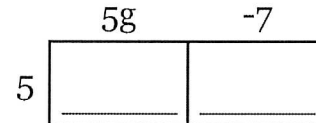
A. 7 B. 8 C. 17 D. 53

75. Which equation has the solution $x = 2$?

A. $5x + 1 = 34$ B. $9x - 7 = 101$

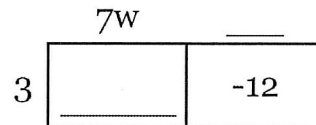
C. $3x - 9 = -3$ D. $3x - 1 = -5$

76. Enter the missing values in the area model to find $5(5g - 7)$



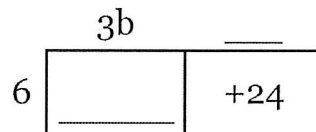
According to the model above, $5(5g - 7) =$ _____

77. Enter the missing values in the area model to find $3(7w - 4)$



According to the model above, $3(7w - 4) =$ _____

78. Enter the missing values in the area model to find $6(3b + 4)$



According to the model above, $6(3b + 4) =$ _____

79. Use the distributive property to write an equivalent expression.

$$2(k + 4)$$

80. Use the distributive property to write an equivalent expression.

$$7(6k - 6m + 1)$$

81. Use the distributive property to write an equivalent expression.

$$3(7s + 2t)$$

82. Use the number line to determine which fraction is larger: $\frac{7}{8}$ or $\frac{5}{6}$. The segment from 0 to 1 has been partitioned into 24 pieces, the smallest number needed to plot both fractions. (a) Plot a fraction equivalent to $\frac{7}{8}$. (b) Plot a fraction equivalent to $\frac{5}{6}$. (c) Complete the sentence below.



$\frac{7}{8}$ is $\left(\begin{array}{c} \text{greater} \\ \text{less} \end{array} \right)$ than $\frac{5}{6}$ because $\frac{7}{8} = \frac{\boxed{}}{24}$ and $\frac{5}{6} = \frac{\boxed{}}{24}$

83. Use the number line to determine which fraction is larger: $\frac{4}{9}$ or $\frac{3}{7}$. The segment from 0 to 1 has been partitioned into 63 pieces, the smallest number needed to plot both fractions. (a) Plot a fraction equivalent to $\frac{4}{9}$. (b) Plot a fraction equivalent to $\frac{3}{7}$. (c) Complete the sentence below.



$\frac{4}{9}$ is $\left(\begin{array}{c} \text{greater} \\ \text{less} \end{array} \right)$ than $\frac{3}{7}$ because $\frac{4}{9} = \frac{\boxed{}}{63}$ and $\frac{3}{7} = \frac{\boxed{}}{63}$

Name: _____

84. Determine which fraction is larger: $\frac{3}{4}$ or $\frac{4}{7}$

(a) Find a common denominator: _____

(b) Fill in boxes marked (a) with the common denominator found above, then fill in the other boxes and complete the sentence:

$$\frac{3}{4} = \frac{\boxed{}}{\boxed{} \text{ (a)}} \text{ and } \frac{4}{7} = \frac{\boxed{}}{\boxed{} \text{ (a)}}, \text{ so } \frac{3}{4} \text{ is } \left(\begin{array}{c} \text{greater} \\ \text{less} \end{array} \right) \text{ than } \frac{4}{7}.$$

85. Determine which fraction is larger: $\frac{6}{7}$ or $\frac{8}{9}$

(a) Find a common denominator: _____

(b) Fill in boxes marked (a) with the common denominator found above, then fill in the other boxes and complete the sentence:

$$\frac{6}{7} = \frac{\boxed{}}{\boxed{} \text{ (a)}} \text{ and } \frac{8}{9} = \frac{\boxed{}}{\boxed{} \text{ (a)}}, \text{ so } \frac{6}{7} \text{ is } \left(\begin{array}{c} \text{greater} \\ \text{less} \end{array} \right) \text{ than } \frac{8}{9}.$$

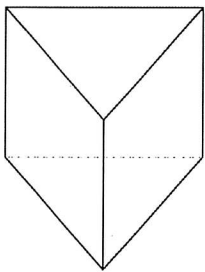
86. Determine which fraction is larger: $\frac{3}{5}$ or $\frac{5}{9}$

(a) Find a common denominator: _____

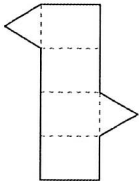
(b) Fill in boxes marked (a) with the common denominator found above, then fill in the other boxes and complete the sentence:

$$\frac{3}{5} = \frac{\boxed{}}{\boxed{} \text{ (a)}} \text{ and } \frac{5}{9} = \frac{\boxed{}}{\boxed{} \text{ (a)}}, \text{ so } \frac{3}{5} \text{ is } \left(\begin{array}{c} \text{greater} \\ \text{less} \end{array} \right) \text{ than } \frac{5}{9}.$$

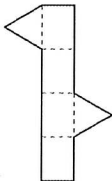
87. Which figure represents a net of the solid below?



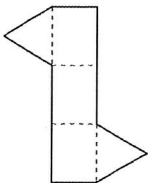
A



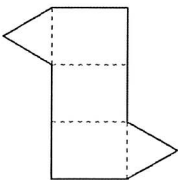
B



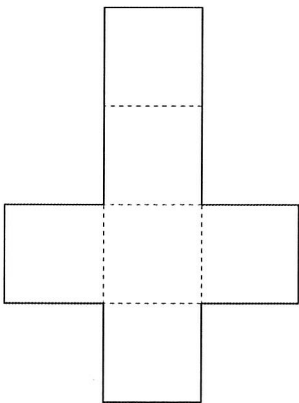
C



D



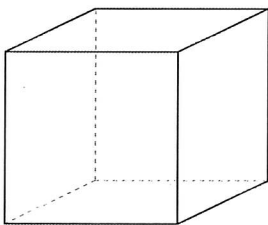
88. The net below represents a three-dimensional object.



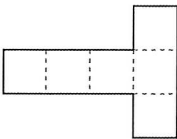
Which three-dimensional object does it represent?

- A. triangular prism
- B. cube
- C. square pyramid
- D. triangular pyramid

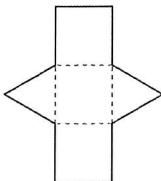
89. Which figure represents a net of the solid below?



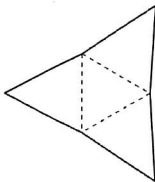
A



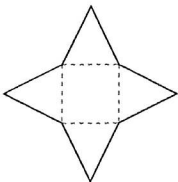
B



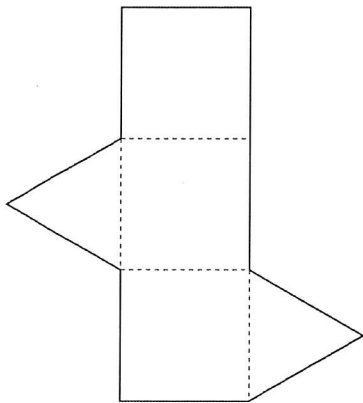
C



D

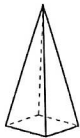


90. The net below represents a three-dimensional object.

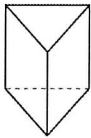


Which three-dimensional object does it represent?

A



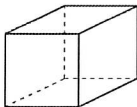
B



C

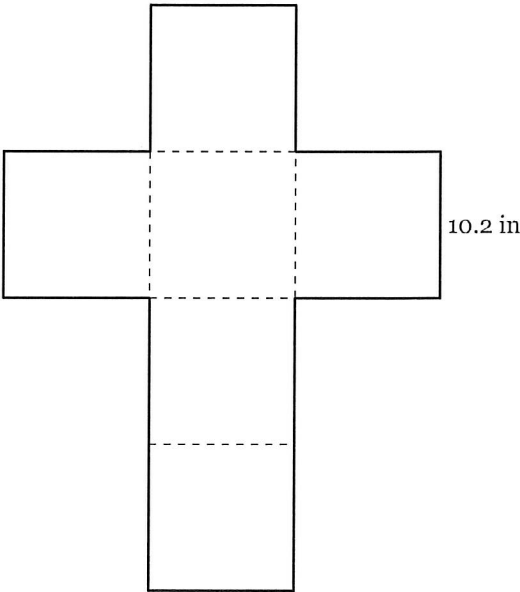


D



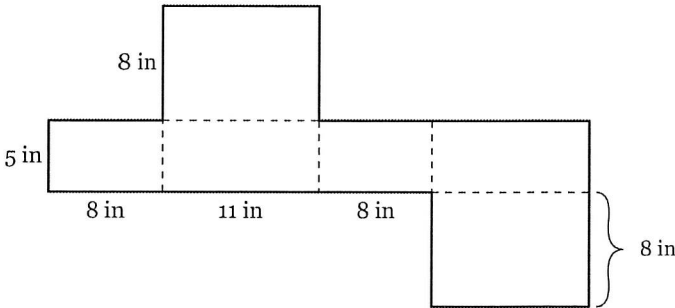
Name: _____

91. Nathan wraps a gift box in the shape of a cube. The figure below shows a net for the gift box.



How much wrapping paper did he use, in square inches?

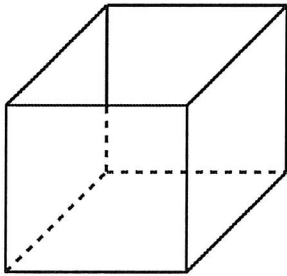
92. Bao is decorating the outside of a box in the shape of a right rectangular prism. The figure below shows a net for the box.



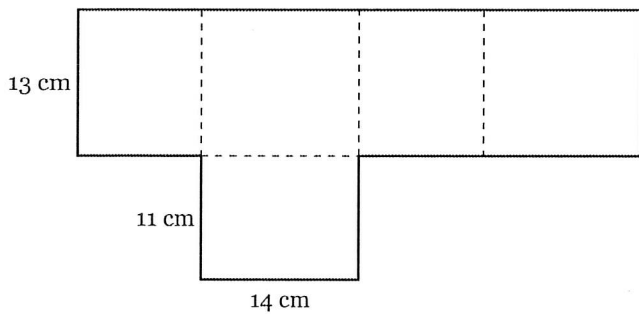
What is the surface area of the box, in square inches, that Bao decorates?

93. Sebastian built a toy box in the shape of a rectangular prism with an open top. The diagram below shows the toy box and a net of the toy box.

TOY BOX

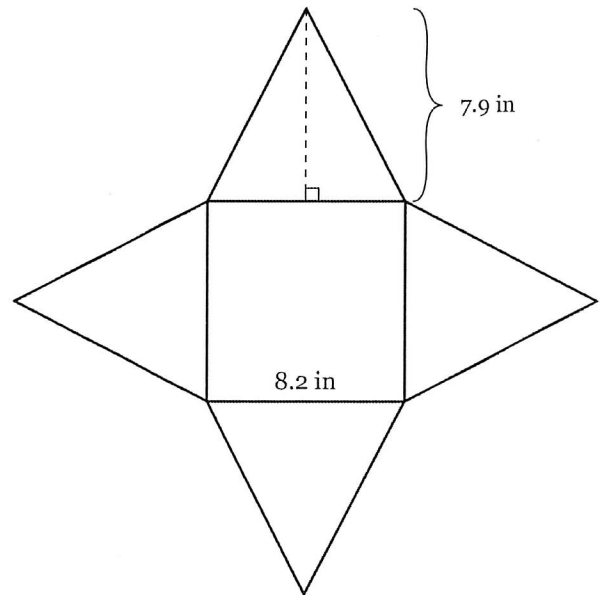


NET OF TOY BOX



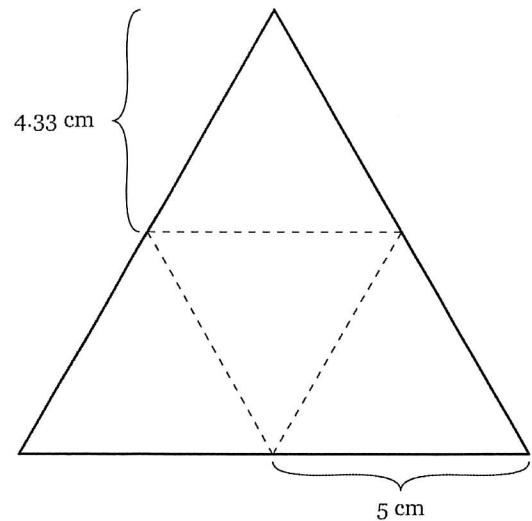
What is the surface area, in square centimeters, of the toy box?

94. The figure below is a net for a square pyramid.



What is the surface area of the square pyramid, in square inches?

95. The figure below is a net for a triangular pyramid.



If all the triangles are equilateral, what is the surface area of the pyramid, in square centimeters?

96. In a popular online role playing game, players can create detailed designs for their character's "costumes," or appearance. Alonso sets up a website where players can buy and sell these costumes online. Information about the number of people who visited the website and the number of costumes purchased in a single day is listed below.

- 150 visitors purchased no costume.
- 163 visitors purchased exactly one costume.
- 23 visitors purchased more than one costume.

Based on these results, express the probability that the next person will purchase exactly one costume as a percent to the nearest whole number.

97. Stella recorded the grade-level and instrument of everyone in the middle school School of Rock below.

Seventh Grade Students

Instrument	# of Students
Guitar	13
Bass	13
Drums	7
Keyboard	8

Eighth Grade Students

Instrument	# of Students
Guitar	13
Bass	8
Drums	13
Keyboard	12

Based on these results, express the probability that a student chosen at random will play the drums as a decimal to the nearest hundredth.

98. Alonso recorded the grade-level and instrument of everyone in the middle school School of Rock below.

Seventh Grade Students

Instrument	# of Students
Guitar	9
Bass	13
Drums	6
Keyboard	13

Eighth Grade Students

Instrument	# of Students
Guitar	4
Bass	5
Drums	4
Keyboard	2

Based on these results, express the probability that an eighth grader chosen at random will play the guitar as a fraction in simplest form.

99. A spinner is divided into five colored sections that are not of equal size: red, blue, green, yellow, and purple. The spinner is spun several times, and the results are recorded below:

Spinner Results

Color	Frequency
Red	18
Blue	11
Green	12
Yellow	15
Purple	18

Based on these results, express the probability that the next spin will land on red or green or yellow as a percent to the nearest whole number.

100. Carson recorded the grade-level and instrument of everyone in the middle school School of Rock below.

Seventh Grade Students

Instrument	# of Students
Guitar	7
Bass	9
Drums	12
Keyboard	2

Eighth Grade Students

Instrument	# of Students
Guitar	7
Bass	10
Drums	8
Keyboard	11

Based on these results, express the probability that an eighth grader chosen at random will play an instrument other than drums as a fraction in simplest form.

101. Elijah owns a small business selling used books. He knows that in the last week 9 customers paid cash, 11 customers used a debit card, and 106 customers used a credit card.

Based on these results, express the probability that the next customer will pay with something other than a debit card as a decimal to the nearest hundredth.

102. Khadija is trying to pick out an outfit for the first day of school. She can choose from 2 pairs of pants, 2 t-shirts, and 6 pairs of shoes. How many different outfits does Khadija have to choose from?

103. Julian is designing a new board game, and is trying to figure out all the possible outcomes. How many different possible outcomes are there if he spins a spinner with four equal-sized sections labeled Red, Green, Blue, Orange and rolls a fair die in the shape of a cube that has six sides labeled 1 to 6?

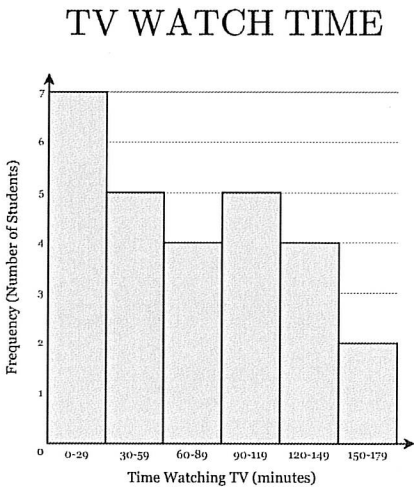
104. Three students, Nicole, Xavier, and Avani, line up one behind the other. How many different ways can they stand in line?

105. Five students, Arianna, Bella, Isaac, Santiago, and Paisley, line up one behind the other. How many different ways can they stand in line?

106. There are 28 students in a homeroom. How many different ways can they be chosen to be elected President, Vice President, Treasurer, and Secretary?

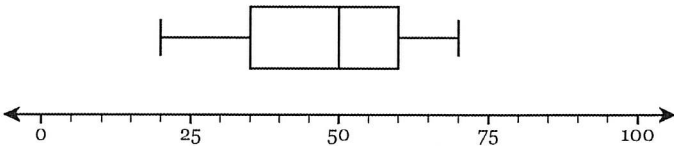
107. There are 18 students in a homeroom. How many different ways can they be chosen to be elected President, Vice President, Treasurer, and Secretary?

108. The graph below represents results of a survey in which students stated the number of minutes they'd spent watching TV the previous day.

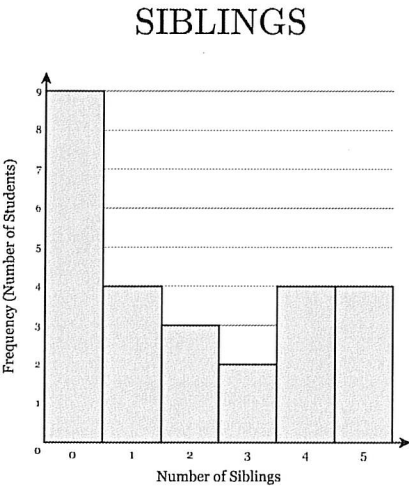


What was the most common interval of minutes students spent watching TV?

109. The box plot below represents some data set. What is the minimum value of the data?

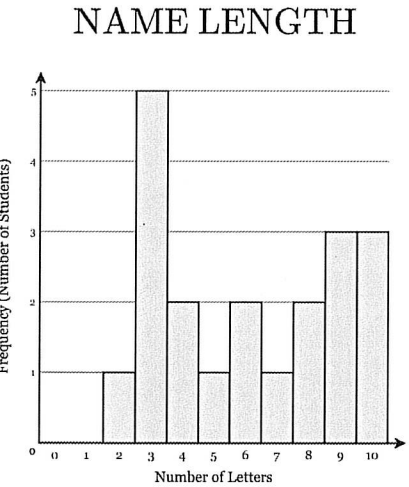


110. The graph below represents the number of siblings each student in a class has.



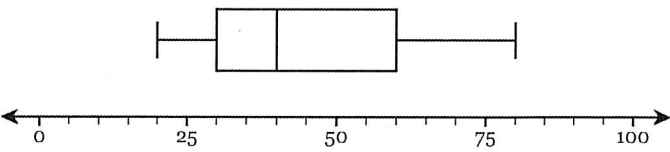
What was the range of number of siblings?

111. The graph below represents the result of a survey in which a number of students reported how many letters were in their last names.



What was the mean name length?

112. The box plot below represents some data set. What percentage of the data values are *greater than* 60?



113. The circumference of a circle is 13π in. What is the area, in square inches? Express your answer in terms of π .

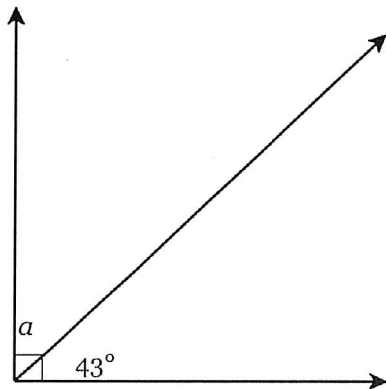
114. The area of a circle is 121π in². What is the circumference, in inches? Express your answer in terms of π .

115. The area of a circle is 100π ft². What is the circumference, in feet? Express your answer in terms of π .

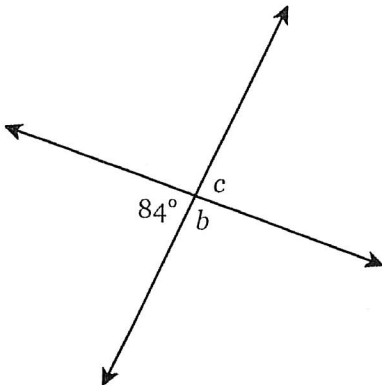
116. The circumference of a circle is 25π m. What is the area, in square meters? Express your answer in terms of π .

117. The circumference of a circle is 20π cm. What is the area, in square centimeters? Express your answer in terms of π .

118. Find the measure of the missing angle.

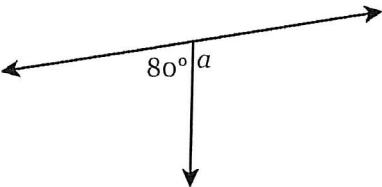


119. Find the measure of the missing angles.

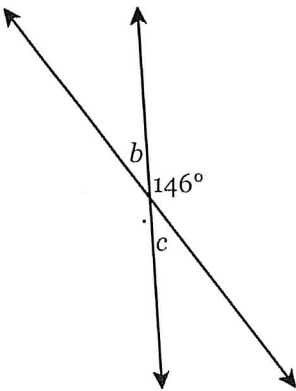


$b = \underline{\hspace{1cm}}^\circ$ $c = \underline{\hspace{1cm}}^\circ$

120. Find the measure of the missing angle.

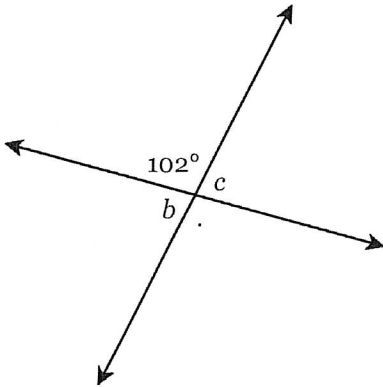


121. Find the measure of the missing angles.



$b = \underline{\hspace{1cm}}^\circ$ $c = \underline{\hspace{1cm}}^\circ$

122. Find the measure of the missing angles.



$b = \underline{\hspace{1cm}}^\circ$ $c = \underline{\hspace{1cm}}^\circ$

123. The radius of a circle is 6 ft. Find its circumference in terms of π .

124. The diameter of a circle is 15 ft. Find its circumference in terms of π .

125. The radius of a circle is 2.8 cm. Find the circumference to the nearest tenth.

126. The diameter of a circle is 7 ft. Find the circumference *to the nearest tenth*.

127. The radius of a circle is 15 in. Find its area in terms of π .

128. The diameter of a circle is 10 in. Find its area in terms of π .

129. The diameter of a circle is 9 cm. Find its area *to the nearest whole number*.

130. The radius of a circle is 7 in. Find its area *to the nearest whole number*.



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