الملف حل أسئلة نموذج هيكل امتحان الفصل الثالث منهج ريفيل

روابط مواقع التواصل الاجتماعي بحسب الصف الثالث



روابط مواد الصف الثالث على تلغرام

التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات

المزيد من الملفات بحسب الصف الثالث والمادة رياضيات في الفصل الثالث

1	امتحان. نهاية العام20152016
2	أوراق عمل لامتحان منتصف الفصل
3	مقررات الفصل الثالث
4	حل الوحدة12
5	رياضياتمراجعة الكترونية رياضيات

Subject المادة	Mathematics الرياضيات
Grade الصف	G3
Stream المسار	Reveal ريفيل
Number of Questions عدد الأسئلة	25
Type of Questions طبيعة الأسئلة	MCQs اختيار من متعدد
Marks per Question الدرجات لكل سؤال	5
Maximum Overall Grade* العلامة القصوى الممكنة*	100
Exam Duration مدة الامتحان	120 minutes
Mode of Implementation طريقة التطبيق	SwiftAssess

Grade 3 term 3 exam

By: Mashael Alshehhi

10. How can you use basic facts and place value to show how to find $a = 7 \times 40$? Then solve for a.

Sample answer:

$a = 7 \times 40$

$a = 7 \times 4$ tens

$a = 28$ tens

$a = 280$

11. There are 30 markers in each package. Jacob buys 8 packages. How many markers does he buy?

$8 \times 30 = 8 \times 3 \times 10$; 240 markers

1. What patterns do you see with the multiples of 1 in the multiplication fact table?

Sample answer: Any number times 1 equals itself.

×	0	1	2	3	4	5	6
0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6
2	0	2	4	6	8	10	12
3	0	3	6	9	12	15	18
4	0	4	8	12	16	20	24
5	0	5	10	15	20	25	30
6	0	6	12	18	24	30	36

2. Keller notices that the numbers in the 2s column are the same as the numbers in the 2s row. How can you explain this pattern?

Sample answer: They are the same because 2 can be the first or second factor in the multiplication equation and the product does not change.

3. Use the multiplication fact table. What pattern do you notice with the multiples of 6?

Sample answer: The products that have a factor of 6 are all even.

4. Use the multiplication fact table. What pattern do you notice with the multiples of 5?

Sample answer: The pattern is odd and even. The products are odd and end in 5, then even and end in 0.

5. How do multiples of 10 relate to multiples of 5? Explain.

Sample answer: When you double the multiple of 5, you get a multiple of 10.

6. **Error Analysis** Eva says that the product of 8×6 is 49. Do you agree? How can you use patterns to explain your thinking?

No. Sample answer: 8×6 is 48 because when you double the product of 4×6, you get 48, $24 + 24 = 48$.

7. Use the multiplication fact table. What patterns do you see with the products of 0?

Sample answer: Any multiplication fact with a factor of 0 has a product of 0.

How can you solve the problem two ways?

5. Mrs. Dean makes 2 sandwiches for her 3 children 4 days a week. How many sandwiches does Mrs. Dean make each week?

   24 sandwiches; Sample answer: $2 \times 3 \times 4$; $2 \times 3 = 6$ and $6 \times 4 = 24$, or $3 \times 4 = 12$ and $2 \times 12 = 24$.

6. Jose paints 2 paintings in 1 day each week. How many paintings does he paint in 7 weeks?

   14 paintings; Sample answer: $2 \times 1 \times 7$; $2 \times 1 = 2$ and $2 \times 7 = 14$, or $1 \times 7 = 7$ and $7 \times 2 = 14$.

7. Candice works 3 hours in 1 day. She works 3 days each week. How many hours does she work in 6 weeks? in 9 weeks?

   $3 \times 3 \times 6 = 54$; $3 \times 3 \times 9 = 81$

How can you use equations with letters for the unknowns to solve the problem?

3. All 5 people in Marcela's family order a sandwich and a drink. The total cost of the drinks is $9. How much does Marcela's family pay for lunch?

$49; Sample answer $5 \times 8 = s$, $40 + 9 = c$

4. The garden center sells plants in packs of 6. Felix buys 9 packs and 16 individual plants. How many plants does he buy in all?

70 plants; Sample answer $6 \times 9 = p$, $54 + 16 = t$

5. Tiffany shares 28 cherries equally among 4 friends. Then she gives each friend 7 additional pieces of fruit. How many pieces of fruit does each friend receive?

14 pieces of fruit; Sample answer $28 \div 4 = c$, $7 + 7 = f$

7. At recess, 34 children lined up to play volleyball. Then 4 children decided to play basketball instead. The rest of the children made teams of 6 people. How many teams were there? Show your work.

5 teams; Sample answer $34 - 4 = c$; $30 \div 6 = t$

8. Nathan had 8 strawberries. His brother had 12 strawberries. He and his brother shared them equally. How many strawberries did Nathan eat? Show your work.

10 strawberries; Sample answer $8 + 12 = s$; $20 \div 2 = a$

How can you estimate to determine the reasonableness of an answer? Circle the reasonable answer.

1. At the train station, Matt buys breakfast for $4 and 3 weekly train passes for $9 each. How much does Matt spend at the station?

   A. $21
   B. $31
   C. $18
   D. $55

2. Ava shares 42 stickers evenly among 6 friends. Then she gives each friend 4 more stickers. How many stickers does each friend receive?

   A. 11 stickers
   B. 25 stickers
   C. 5 stickers
   D. 33 stickers

Is the answer reasonable? Show your thinking.

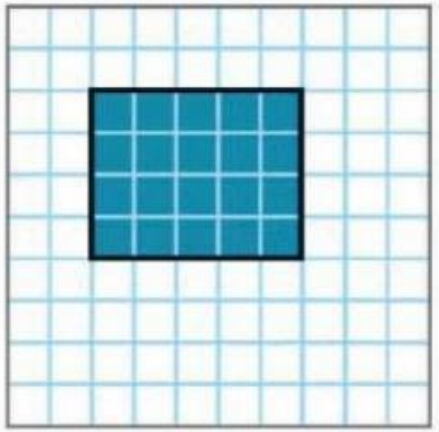
3. Maria walks 3 minutes to the bus stop. Then she rides the bus 8 minutes to get to school. She does this 5 days per week. She says she spends 55 minutes traveling to school each week.

The answer is reasonable; Sample answer: $3 + 8 = 11$; round 11 to 10, $10 \times 5 = 50$; 55 minutes is close to 50 minutes.

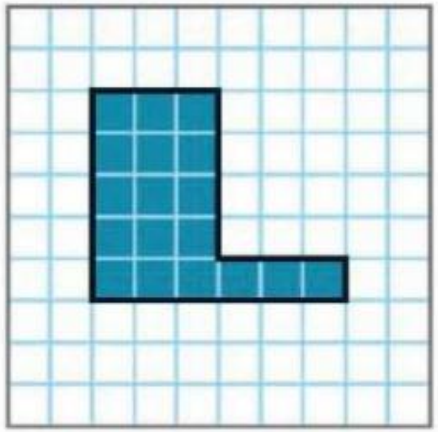
4. Marcus spends $36 on sunflowers and buys 4 zinnia plants for his garden. Marcus says he spent $98 on plants.

The answer is unreasonable; Sample answer: $4 \times 8 = 32$; round 32 to 30 and 36 to 40; $30 + 40 = 70$; 98 is not close to 70.

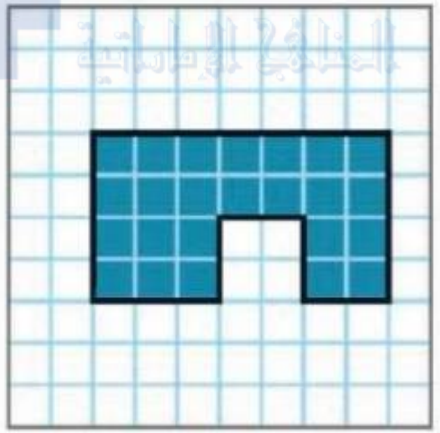
What is the perimeter of the figure?

1. 

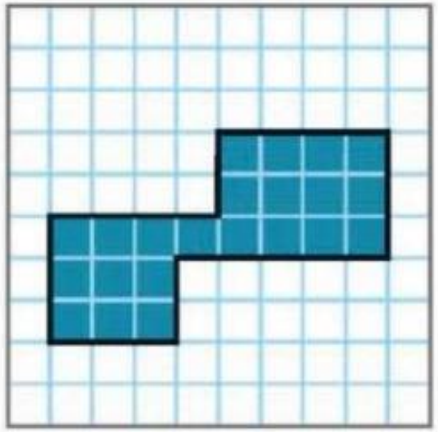
18 units

2. 

22 units

3. 

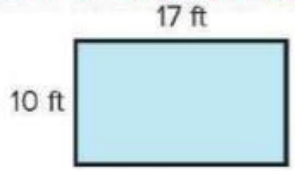
26 units

4. 

26 units

What is the perimeter of the figure? Complete the equation.
Order of addends and factors may vary.

1.



17 + 10 + 17 + 10 = 54

54 feet

2.

8 + 8 + 8 + 8 + 8 = 40

5 × 8 = 40

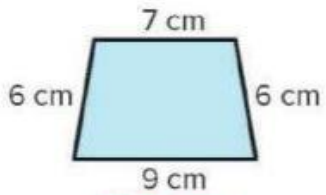
40 inches

What is the perimeter of the figure? Include the unit.

3.

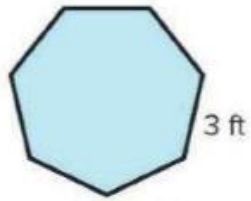
20 m

4.



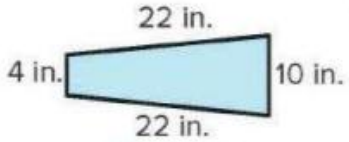
28 cm

5.



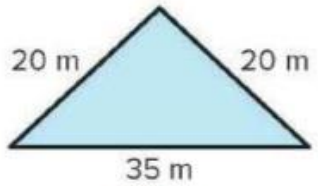
21 ft

6.



58 in.

7.



75 m

8.

40 ft

How can you find the unknown side length of the figure?

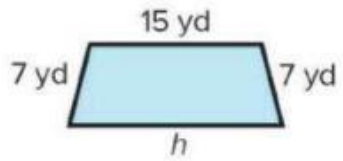
Order of addends will vary.

1. The perimeter is 46 yards.

$46 = \underline{7} + \underline{15} + \underline{7} + h$

$46 = \underline{29} + h$

$46 - \underline{29} = h$



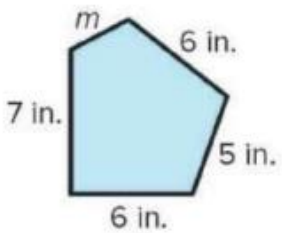
The unknown side length is 17 yards.

2. The perimeter is 27 inches.

$27 = 6 + 5 + 6 + 7 + m$

$27 = \underline{24} + m$

$27 - \underline{24} = m$



The unknown side length is 3 inches.

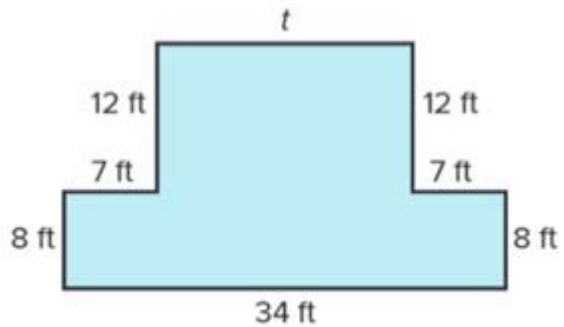
3. The perimeter is 108 feet.

Sample answer:

$108 = 12 + 12 + 7 + 7 + 8 + 8 + 34 + t$

$108 = 88 + t$

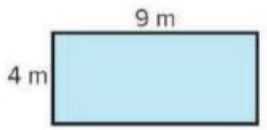
$108 - 88 = 20$



The unknown side length is 20 feet.

What is the perimeter and area of the figure? Include the unit.

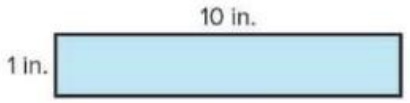
1.



perimeter = 26 meters

area = 36 square meters

2.



perimeter = 22 inches

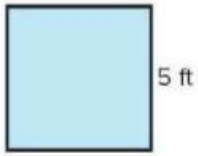
area = 10 square inches

3.

perimeter = 14 centimeters

area = 10 square centimeters

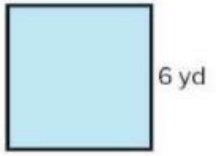
4.



perimeter = 20 feet

area = 25 square feet

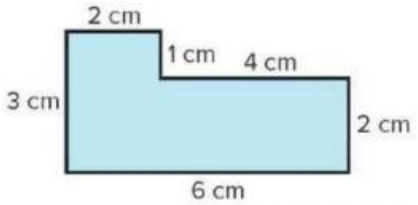
5.



perimeter = 24 yards

area = 36 square yards

6.



perimeter = 18 centimeters

area = 14 square centimeters

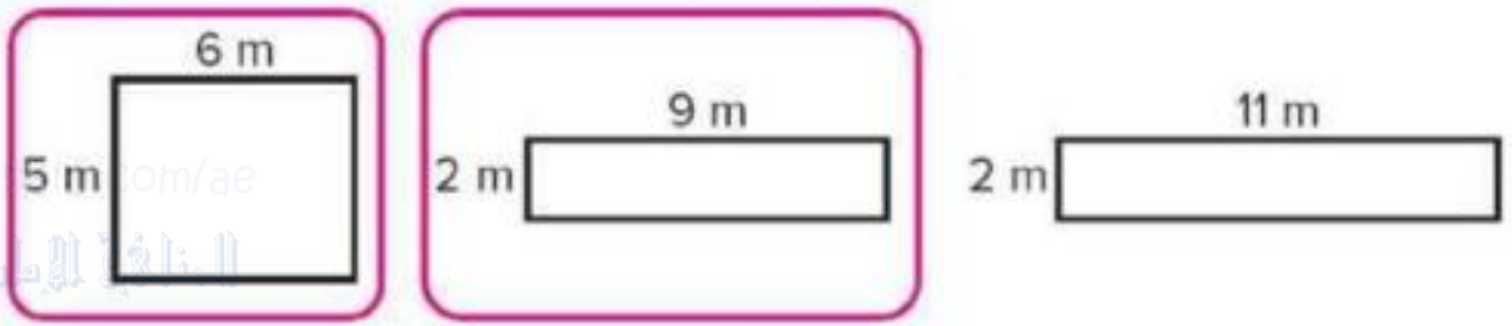
7. A rectangle has an area of 20 square centimeters. What could be the length and width of the rectangle?

Sample answer: 4 cm and 5 cm

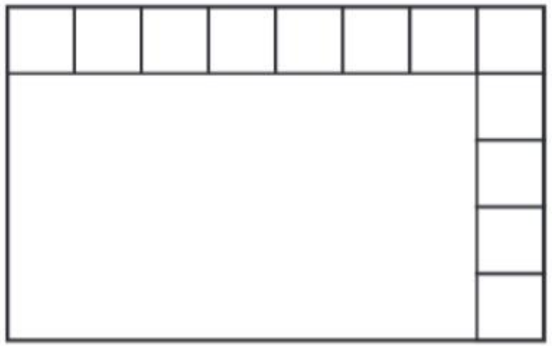
8. A rectangular patch of grass has a perimeter of 24 feet. If one of the side lengths is 10 feet, what are the other side lengths? Write an equation to support your answer.

2, 10, and 2; Sample answer: $24 = 10 + 2 + 10 + 2$

10. Which rectangles have a perimeter of 22 m? Circle them.



1. Which expression can be used to find the perimeter of the large rectangle?



Circle the correct answer.

a. 8×5

b. $8 + 8 + 5 + 5$

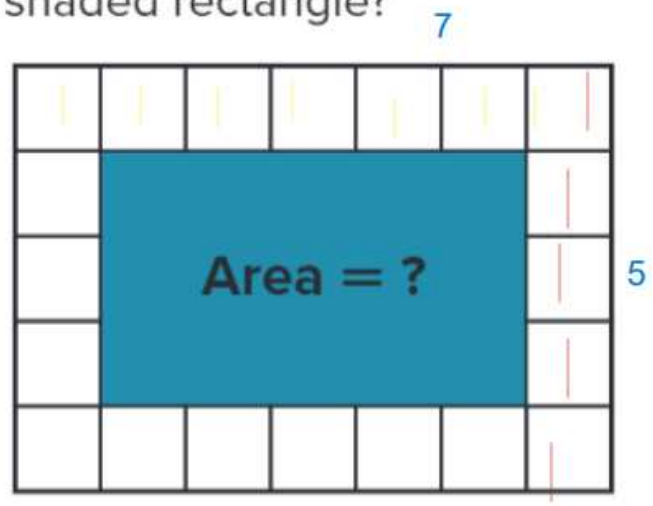
c. $8 + 5$

d. $8 \times 5 \times 8 \times 5$

e. $8 + 8 + 4 + 4$

f. 8×4

2. Which expression can be used to find the area of the shaded rectangle?



Circle the correct answer.

a. 7×5

b. $7 + 7 + 5 + 5$

c. 3×5

d. $5 + 5 + 3 + 3$

e. $5 \times 5 \times 3 \times 3$

f. $3 + 5$

What equation describes the situation?

1. 49 feet of rope cut into pieces 7 feet long

   $49 \div 7 = ?$

2. 9 strips of paper each 6 inches long

   $9 \times 6 = ?$

3. 4 miles each day for 8 days

   $8 \times 4 = ?$

4. 10 yards of fabric cut into 5 pieces

   $10 \div 5 = ?$

5. Layla is using yarn for different projects. For each project, the number of pieces of yarn, the length of each piece of yarn, and the total amount of yarn she needs changes. What number completes the row?

Pieces of Yarn	Length of Each Piece (inches)	Total Amount of Yarn (inches)
3	5	**15**
6	7	**42**
7	8	**56**
5	9	45
8	**6**	48
4	7	28

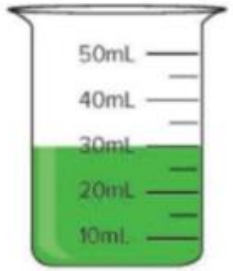
6. There are 3 boxes lined up against one wall of a warehouse. Each box is 6 feet long. How can you find the total length of the 3 boxes? Write an equation to show your work.

   18 feet; Sample answer: $3 \times 6 = 18$

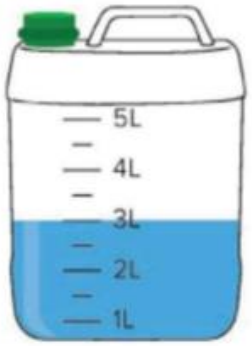
7. A board is 64 inches long. Michael plans to cut the board into 8 equal sections. How can you find the length of each section? Write an equation to show your work.

   8 inches; Sample answer: $64 \div 8 = 8$

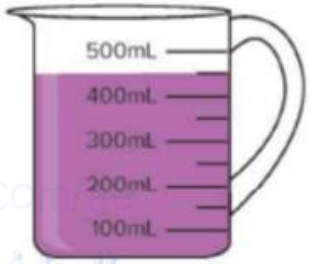
What is the volume of the liquid in the container?

1. 

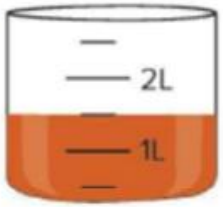
30 milliliters

2. 

3 liters

3. 

450 milliliters

4. 

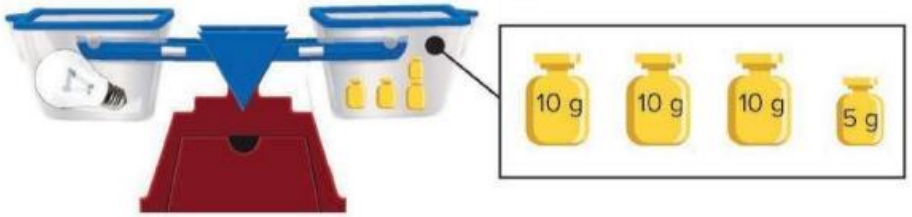
$1\frac{1}{2}$ liters

5. **Error Analysis** Alex pours soup into a jar. He says he has 400 milliliters of soup. How do you respond to Alex?

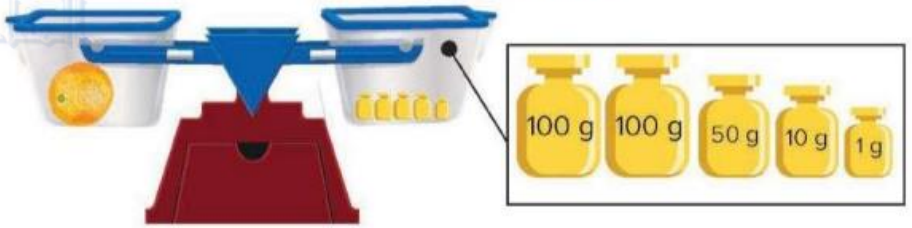
Sample answer: The soup fills to the line halfway between 300 and 400, so the exact amount would be 350 milliliters.

1. What is the mass of the brick? **2 kilograms**

2. What is the mass of the lightbulb? **35 grams**



3. What is the mass of the orange? **261 grams**



4. What is the mass of the carrot? **68 grams**

Which is the best estimate for the mass of the object?

1. nickel

5 grams

50 grams

5 kilograms

2. loaf of bread

50 grams

500 grams

5 kilograms

3. three oranges

6 grams

600 grams

6 kilograms

4. hamster

20 grams

200 grams

2 kilograms

5. cantaloupe

1 kilogram

10 kilograms

100 kilograms

6. sandwich

2 grams

250 grams

25 kilograms

What time is shown on the clock?

1. 

6 : 24

2. 

4 : 36

3. 

12 : 47

Tina, Troy, and Tim went to bed at different times.

4. What time did Tina go to bed?

Tina

9 : 24

5. What time did Troy go to bed?

Troy

8 : 56

6. What time did Tim go to bed?

Tim

9 : 03

7. What would Tina's clock look like if she went to bed at 9:38?

8. What would Tim's clock look like if he went to bed at 9:12?

Show your work on the clock or number line.

1. George started his walk to school at 7:15 a.m. and ended his walk at 7:35 a.m. How long was his walk to school?

20 minutes; See students' work

2. Band practice started at 3:08 p.m. and ended at 3:56. How long was band practice?

48 minutes; See students' work

3. Rita visited her friend from 4:12 p.m to 4:49 p.m. How long was her visit? **37 minutes; See students' work.**

4. The party started at 3:25 p.m. and lasted 45 minutes. When did the party end?

4:10 p.m.

5. Sam's art class started at 4:05 p.m. It lasted 48 minutes. When did the class end?

4:53 p.m.

6. Sara finished cooking at the a.m. time shown. She cooked for 32 minutes. What time did she start cooking?

11:03 a.m.

7. Aaron's game lasted 37 minutes It ended at 12:59 p.m. When did his game start?

12:22 p.m.

Use the picture graph to complete exercises 1 and 2.

1. How many days of rain are represented by each picture? Explain how you know.

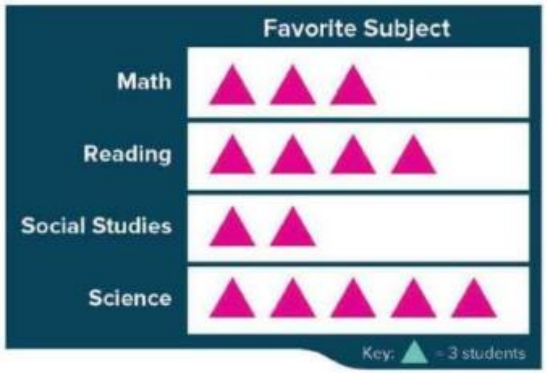
   2; Sample answer: The key shows that 1 picture represents 2 days of rain.

2. How many days did it rain in June? Explain how you know.

   10; Sample answer: There are 5 pictures. Each picture represents 2 days of rain, 5 × 2 = 10.

3. The table shows each third grader's favorite subject. How can you display the data in the picture graph?

Favorite Subject	Third Graders
Math	9
Reading	12
Social Studies	6
Science	15



Name _____

1. How can you display the data in a scaled bar graph?

Sample answer shown.

Class Goldfish Name	
Name	**Number of Votes**
Flash	8
Bubbles	6
Squirt	16
Cheese	10

a. How did you decide the scale of your graph?

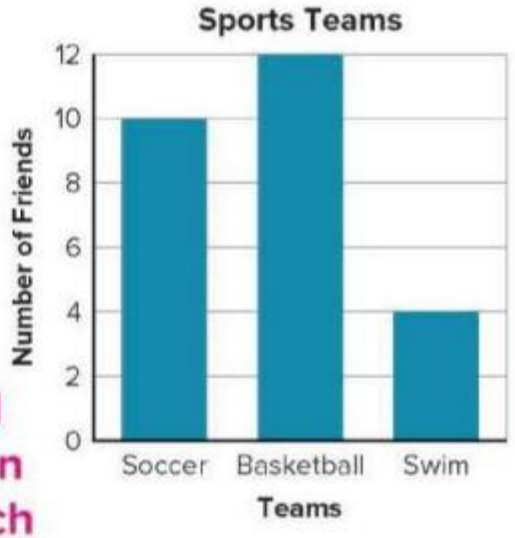
Sample answer: The numbers are even so I knew I could make each interval represent 2 votes.

b. What is another scale you could use for your graph?

Sample answer: Each interval could represent 4.

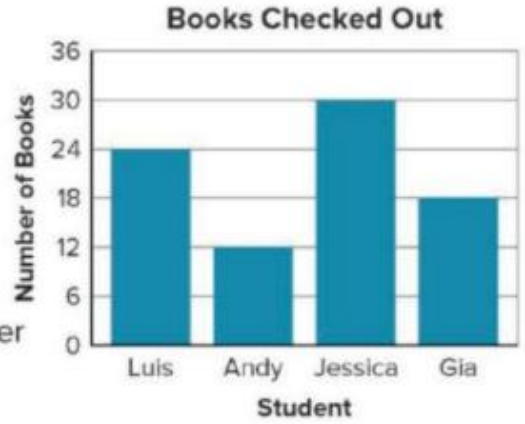
2. **Error Analysis** Cameron created a bar graph using the data in the table. How can you explain the error in the graph?

Sports Teams	
Team	**Number of Friends**
Soccer	5
Basketball	6
Swim	2



Sample answer: Each interval represents 2 friends. Cameron completed the graph as if each interval represents 1 friend.

Use the bar graph to complete exercises 1 through 3.

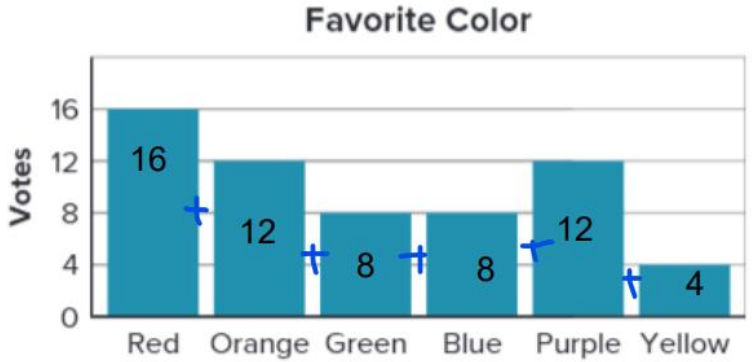


1. How many more books did Jessica check out than Luis?
   6 books
2. What is the difference between the greatest number of books checked out and the fewest number of books checked out?
   18 books
3. The number of books Jessica checked out is the same as the total number of books checked out by which two students? Explain how you know.
   Andy and Gia; Sample answer: Jessica checked out 30 books. Andy checked out 12 books and Gia checked out 18 books. 12 + 18 = 30

Use the picture graph to complete exercises 4 through 6.

4. How many fewer banana nut muffins sold than blueberry?
   12 muffins
5. How many more chocolate muffins sold than corn and blueberry muffins combined? Show your work.
   6 muffins;
   Sample answer: 12 + 18 = 30, 36 − 30 = 6
6. How can you compare the sales of blueberry muffins to corn and banana nut muffins combined? Explain. **They sold the same number. Sample answer: 18 blueberry muffins sold; 12 + 6 = 18; 18 corn and banana nut muffins sold**

16. Students were asked to name their favorite color. The results of the survey are shown in the bar graph.



= 60

How many students were surveyed in all? (Lesson 12-9) add all= 60

What is the length of each object to the nearest half inch?

1. 

$5\frac{1}{2}$ inches

2. 

$2\frac{1}{2}$ inches

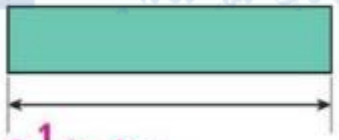
3. 

2 inches

What is the length of each object to the nearest quarter inch?

4. 

$4\frac{3}{4}$ inches

5. 

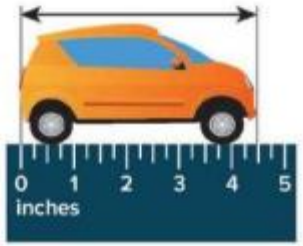
$2\frac{1}{4}$ inches

6. 

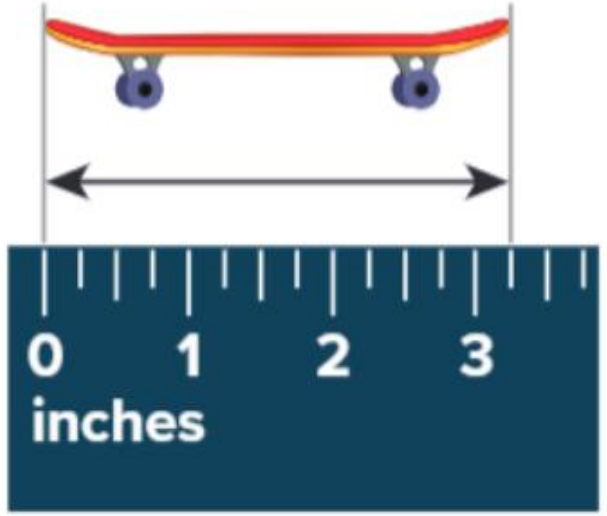
$1\frac{3}{4}$ inches

7. What is the most precise measurement of the toy car using the ruler in the picture?

$4\frac{1}{2}$ inches

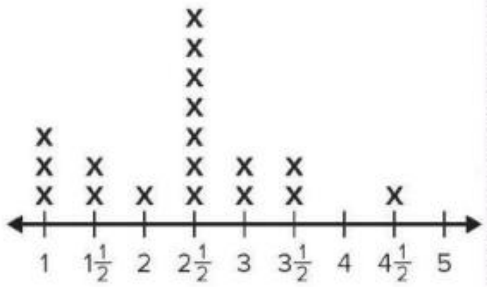


20. What is the length of the mini-skateboard to the nearest quarter inch? (Lesson 12-10)



$3\frac{1}{4}$

Use the line plot to complete exercises 1 through 3.



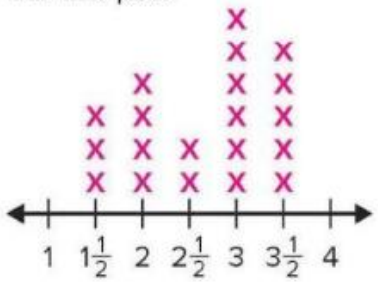
Heights of Figurines (in.)

1. How many figurines are in the collection?
   18 figurines
2. Which height is most common?
   $2\frac{1}{2}$ inches
3. Which measurements were not the height of any figurines?
   4 and 5 inches
4. How many figurines are shorter than 2 inches?
   5 figurines
5. How many figurines are taller than 3 inches?
   3 figurines

Brody measures his crayons to the nearest half inch. He records the measurements in a table.

Crayon Lengths (in.)				
2	3	$1\frac{1}{2}$	3	$1\frac{1}{2}$
$3\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{2}$	3	2
2	$3\frac{1}{2}$	3	2	$2\frac{1}{2}$
3	$3\frac{1}{2}$	$3\frac{1}{2}$	$1\frac{1}{2}$	3

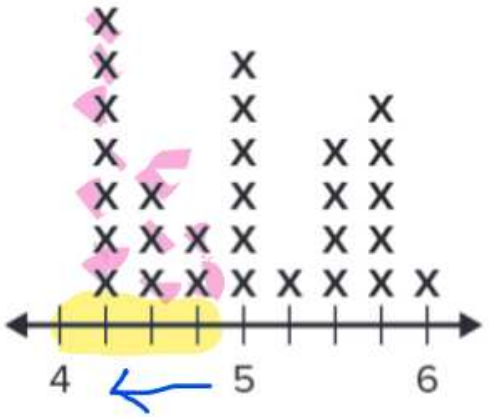
6. How can you display the data in a line plot?



Lengths of Crayons (in.)

7. How many crayons are $2\frac{1}{2}$ inches long?
   2 crayons
8. How many more 3-inch crayons are there than $1\frac{1}{2}$-inch crayons?
   3 crayons
9. How many crayons are shorter than 3 inches?
   9 crayons

19. Each student was given a piece of ribbon and asked to measure its length to the nearest quarter inch. The line plot shows the lengths of all the pieces of ribbon. (Lesson 12-11)



Lengths of Ribbon (inches)

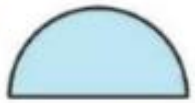
How many pieces of ribbon are less than 5 inches long?

A. 12 **B.** 18
C. 29 **D.** 6

Is the shape a polygon? If not, explain why.

1. 

yes

2. 

No. Sample answer: The shape has a curved side.

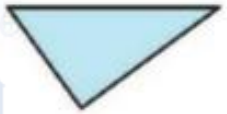
3. 

No. Sample answer: The shape is not closed.

How can you name the polygon?
Write *triangle*, *quadrilateral*, *pentagon*, *hexagon*, or *octagon*.

4. 

quadrilateral

5. 

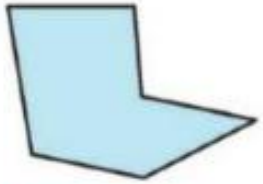
triangle

6. 

pentagon

7. 

pentagon

8. 

hexagon

9. 

quadrilateral

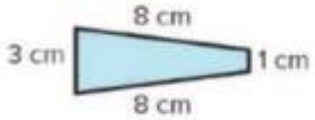
How many pairs of equal side lengths and right angles does each quadrilateral have?

1.

2 pair(s) of equal sides

4 right angle(s)

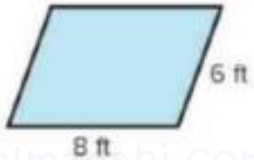
2.



1 pair(s) of equal sides

0 right angle(s)

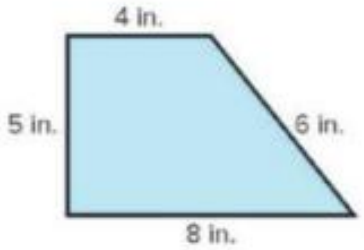
3.



2 pair(s) of equal sides

0 right angle(s)

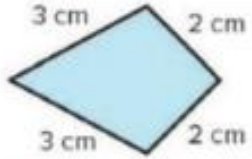
4.



0 pair(s) of equal sides

2 right angle(s)

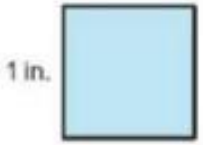
5.



2 pair(s) of equal sides

1 right angle(s)

6.



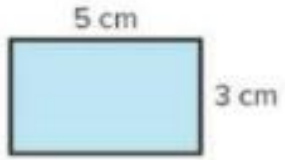
2 pair(s) of equal sides

4 right angle(s)

How can you classify the shapes?
Some may have more than one label.

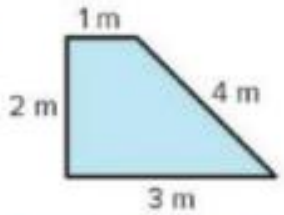
Write *square*, *rectangle*, *rhombus*, and *quadrilateral*.

1.



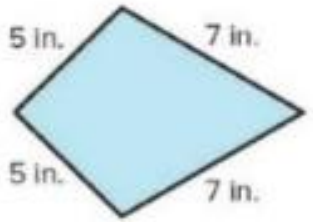
quadrilateral, rectangle

2.



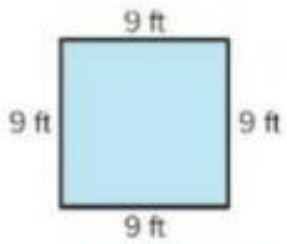
quadrilateral

3.



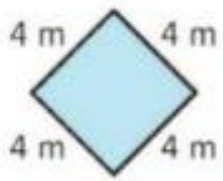
quadrilateral

4.



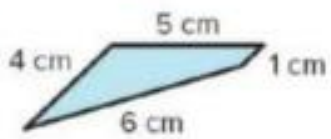
quadrilateral, square, rectangle, rhombus

5.



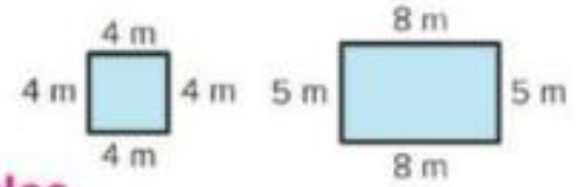
quadrilateral, rhombus

6.

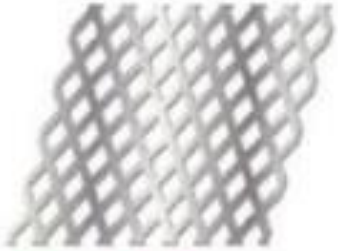


quadrilateral

8. How can you classify the quadrilaterals shown? Explain. **Sample answer: They are both quadrilaterals, rectangles, and have 4 right angles.**



9. **STEM Connection** If Hannah is welding a piece of metal with this repeating pattern, how can she explain that the quadrilateral in the pattern is a rhombus and not a square?



Sample answer: Since all 4 sides have the same length, the quadrilateral is a rhombus. There are no right angles, so the quadrilateral is not a square.

10. What is the name of a quadrilateral with 0 right angles and 4 sides of equal length? **rhombus**

11. Describe the attributes of a quadrilateral that is not a rectangle or a rhombus.

Sample answer: The quadrilateral does not have 4 right angles or 4 equal sides.