

# MATHEMATICS

# Mathematics Chart

## LENGTH

Metric	Customary
1 meter = 100 centimeters	1 yard = 3 feet
1 centimeter = 10 millimeters	1 foot = 12 inches

## TIME

1 year = 365 days
1 year = 12 months
1 year = 52 weeks
1 week = 7 days
1 day = 24 hours
1 hour = 60 minutes
1 minute = 60 seconds

Metric and customary rulers can be found on the separate Mathematics Chart.

**DIRECTIONS**

Read each question and choose the best answer. Be sure to mark all of your answers.

**SAMPLE A**

Which of these numbers is greater than 3,590? Mark your answer.

- 3,491
- 3,601
- 3,589
- 3,578

**SAMPLE B**

Tomás counted 8 oranges, 7 pears, and 4 apples in a fruit bowl. What was the total number of oranges and apples in the fruit bowl?

Record your answer in the boxes below. Then fill in the bubbles. Be sure to use the correct place value.

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9



- 1 Helena has a box of colored toothpicks. The table shows the number of toothpicks of each color in the box.

Toothpick Colors

Color	Number in Box
Yellow	14
Blue	19
Green	13
Red	15

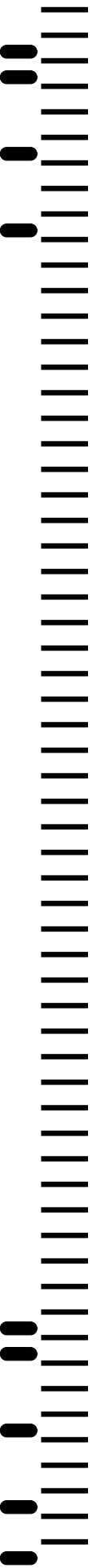
If Helena takes 1 toothpick out of the box without looking, which color will she most likely get? Mark your answer.

- Yellow
- Blue
- Green
- Red

- 2 What number is missing in the pattern below? Mark your answer.

2, 9, 16, \_\_, 30

- 22
- 20
- 23
- 21



3 Which sign shows a line of symmetry? Mark your answer.



L



M



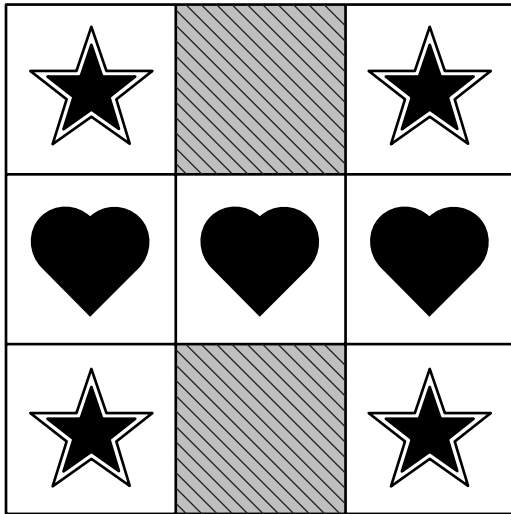
N



O

- L
- M
- N
- O

- 4 Look at the picture of a quilt. What fraction of the squares on this quilt have stars? Mark your answer.



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

- 5 At a basketball game the scoreboard at halftime looked like the one below.

Scoreboard

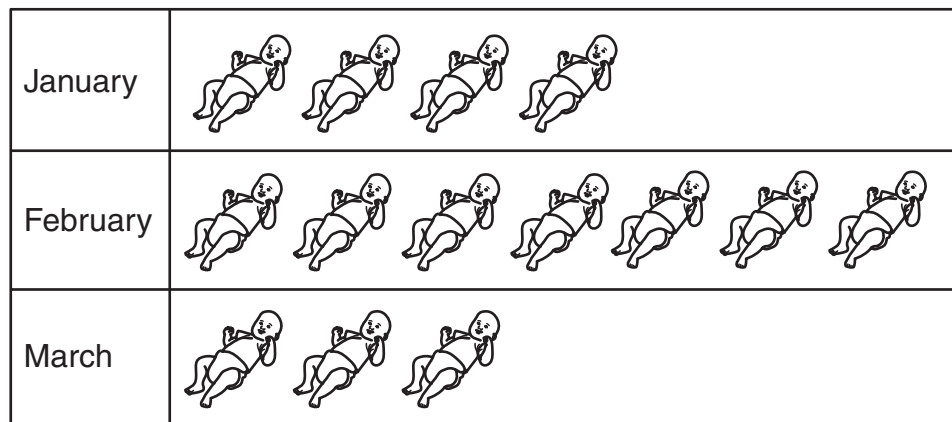
Home Team	37
Visiting Team	34

Which of the following best describes the scores on the scoreboard? Mark your answer.

- The home team scored 37 more points than the visiting team scored.
- The visiting team scored 3 more points than the home team scored.
- The home team scored 3 more points than the visiting team scored.
- The visiting team scored 34 more points than the home team scored.

- 6 Carlos is working on the graph shown below. He knows there were 30 babies born in March at Smithville Hospital.

Babies Born at Smithville Hospital



Each  means 5 babies.

How many more babies does Carlos need to add to March to finish the graph? Mark your answer.

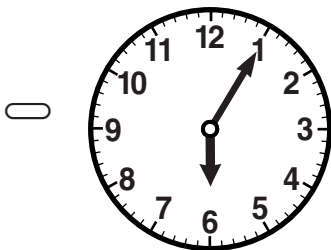
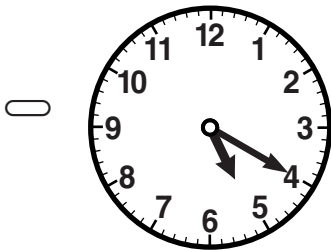
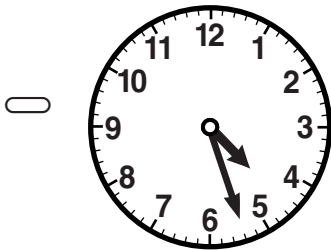
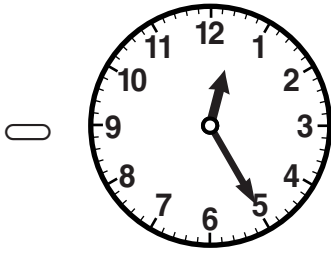
- 3
- 5
- 27
- 6

- 7 Which number is between 7,588 and 9,538? Mark your answer.

7,588		9,538
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- 7,499
- 9,539
- 9,499
- 7,585

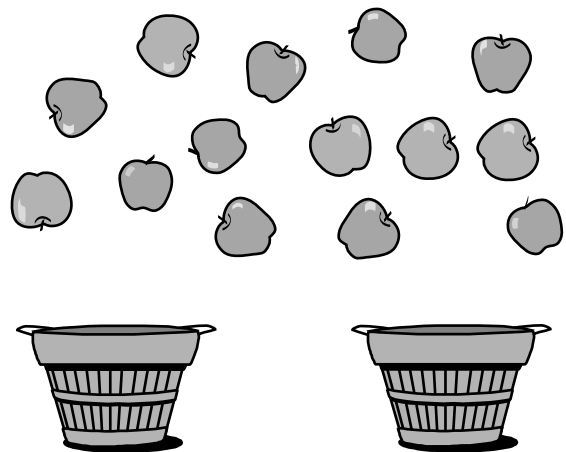
- 8 Benito cleaned his room between 5:00 P.M. and 6:00 P.M. Which clock shows a time between 5:00 P.M. and 6:00 P.M.? Mark your answer.



- 9 The school auditorium has 99 seats. People are sitting in 68 of the seats. Which is the best estimate of the number of seats that do **NOT** have people sitting in them? Mark your answer.

- 170  
 30  
 20  
 100

- 10 Keith picked 14 apples from a tree and put them in 2 baskets. He put the same number of apples into each basket.



Which number sentence shows how many apples Keith put into each basket? Mark your answer.

- $14 + 2 = 16$   
  $14 - 2 = 12$   
  $14 \times 2 = 28$   
  $14 \div 2 = 7$

- 11 Peggy's parents spent \$73 at the shoe store. Peggy's shoes cost \$24, and her sister Sharon's shoes also cost \$24. The rest of the money was spent on her brother Logan's shoes. How much was spent on Logan's shoes? Mark your answer.

- \$49
- \$27
- \$48
- \$25

- 12 Randall bought a sandwich for \$1.55 and a drink for \$0.75. Which of these shows one way to find how much change Randall received from \$5.00? Mark your answer.

- Add \$0.75, \$1.55, and \$5.00
- Add \$1.55 and \$0.75 and then subtract the total from \$5.00
- Add \$1.55 and \$5.00 and then subtract \$0.75 from the total
- Add \$0.75 and \$5.00 and then subtract \$1.55

- 13 Which of these best describes all the numbers on the shirts? Mark your answer.

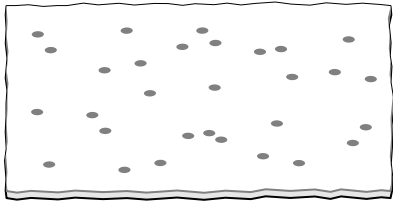


- They are all odd numbers.
- They are all multiples of 3.
- They are all 2-digit numbers.
- They are all greater than 14.

- 14 At Monroe Elementary, 20 students entered the cafeteria at 12:00. At 12:15, 22 more students came to the cafeteria, and at 12:30, 17 more students arrived. Which number sentence can be used to find how many students were in the cafeteria from 12:00 to 12:30? Mark your answer.

- $20 + 22 = \square$
- $20 + 17 + 12 = \square$
- $20 + 17 = \square$
- $20 + 22 + 17 = \square$

- 15 Jared's favorite type of cracker is shown below. Use the ruler on the Mathematics Chart to measure the perimeter of this cracker in inches.



What is the perimeter of Jared's favorite type of cracker to the nearest inch? Mark your answer.

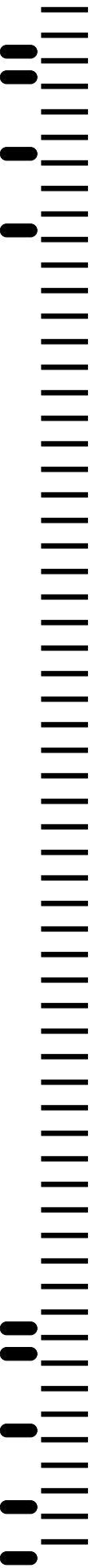
- 5 in.
- 2 in.
- 6 in.
- 15 in.

- 16 Fred needed to put horseshoes on his horses.

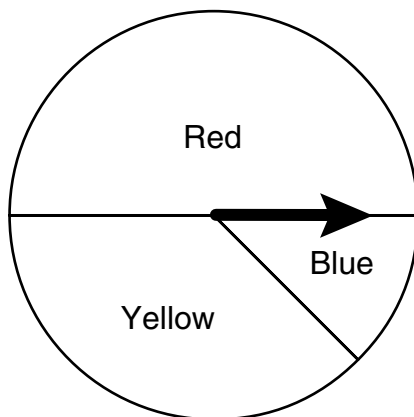


If he counted the horseshoes in groups of 4, which list shows numbers Fred could have named? Mark your answer.

- 16, 24, 28, 34
- 4, 16, 32, 54
- 8, 12, 16, 20
- 4, 8, 24, 38



17 Look at the spinner below.



Which tally chart shows the most likely results of 14 spins? Mark your answer.

Color	Spin Results
Red	
Blue	
Yellow	

Color	Spin Results
Red	
Blue	
Yellow	

Color	Spin Results
Red	
Blue	
Yellow	

Color	Spin Results
Red	
Blue	
Yellow	

- 18 What number makes this number sentence true? Mark your answer.

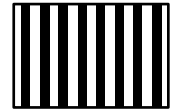
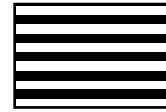
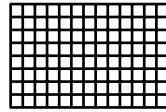
$$\square \div 8 = 8$$

- 48
- 56
- 64
- 72

- 19 Jen has 45 more baseball cards than Bill has. Which of these shows the number of baseball cards that Jen and Bill each could have? Mark your answer.

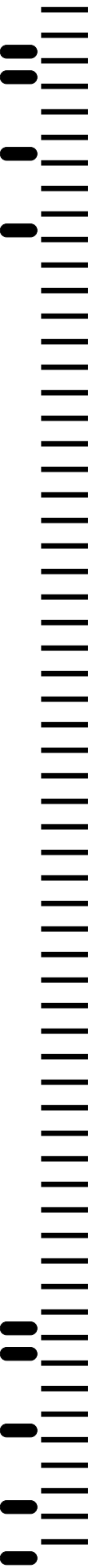
- Jen 60, Bill 110
- Jen 110, Bill 60
- Jen 65, Bill 110
- Jen 110, Bill 65

- 20 Look at the figures below.

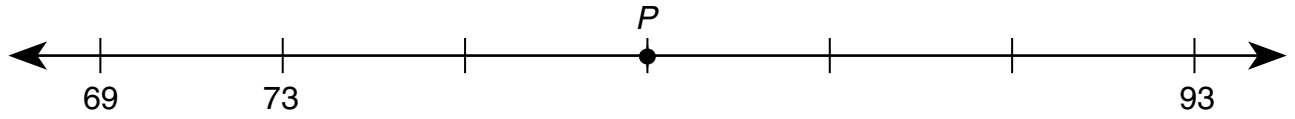


Which statement about these figures is true? Mark your answer.

- They all have 2 lines of symmetry.
- They are all squares.
- They are all pentagons.
- They are all circles.



21 What number does point  $P$  best represent on the number line?



Record your answer in the boxes below. Then fill in the bubbles. Be sure to use the correct place value.

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

22 Max went to the movies with \$15 in his wallet. After buying a movie ticket and snacks, he had \$6 left. If the movie ticket cost \$5, which of these shows one way to find the amount in dollars that Max spent on snacks? Mark your answer.

$15 - 6 - 5$

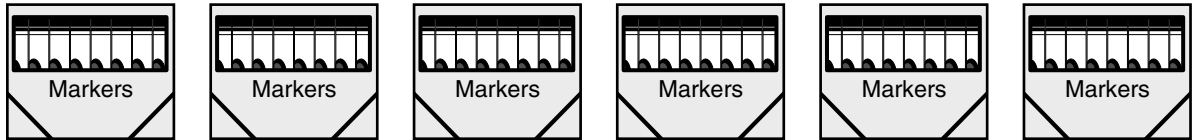
$15 + 6 - 5$

$15 - 6 + 5$

$15 + 6 + 5$



23 Miss Gray had boxes of markers in her art tray. Each box had 8 markers in it.



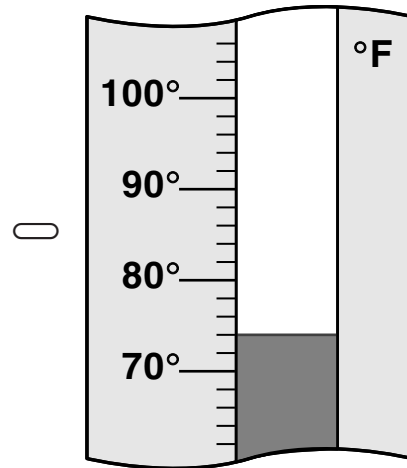
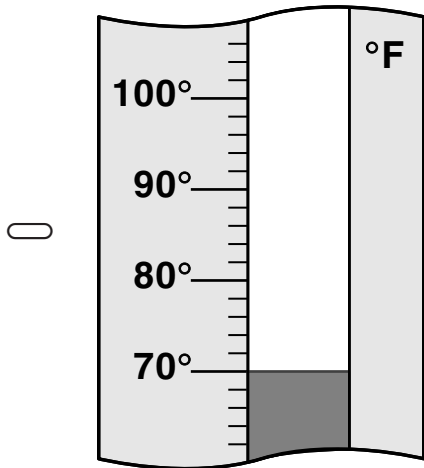
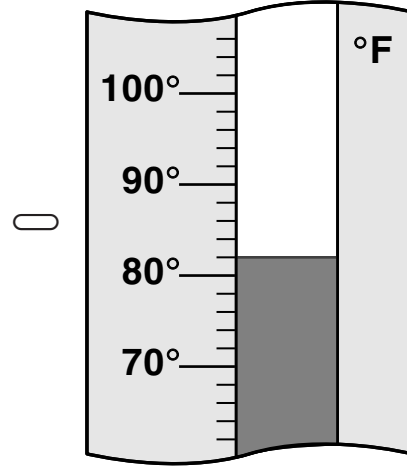
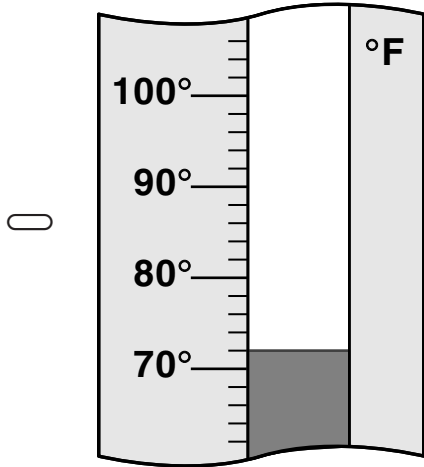
If Miss Gray counted the markers in groups of 8, which list shows numbers she could have named? Mark your answer.

- 16, 24, 30, 36
- 16, 24, 32, 40
- 8, 16, 20, 24
- 8, 12, 16, 20

24 While visiting the penguin area at the zoo, Lee saw 31 penguins. There were 9 penguins walking on the ice and 7 sliding on the ice. The remaining penguins were swimming. Which number sentence shows one way to find the number of penguins that were swimming? Mark your answer.

- $31 - 9 - 7 = \square$
- $9 \times 7 \div 31 = \square$
- $31 + 9 \div 7 = \square$
- $9 \times 7 - 31 = \square$

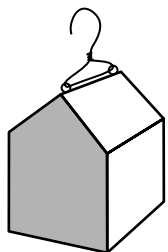
- 25 Jean-Marc liked the room temperature best at  $72^{\circ}\text{F}$ . Which thermometer shows this temperature? Mark your answer.



- 26 Jessie eats from 3 to 5 school lunches each week. Which is a reasonable number of school lunches Jessie will eat in 7 weeks? Mark your answer.

- More than 50
- From 36 to 50
- From 21 to 35
- Fewer than 21

- 27 Megan hung a birdhouse from a tree in her yard.



Which geometric figure best represents the shaded face on the birdhouse? Mark your answer.

- Triangle
- Hexagon
- Octagon
- Pentagon

- 28 Steven had \$30. He bought a T-shirt, a hat, and a package of model cars at the store. He spent a total of \$11 including tax on the T-shirt and the hat together. What other information is needed to find how much money Steven had left after leaving the store? Mark your answer.

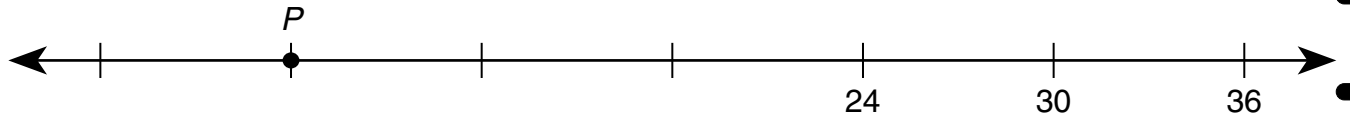
- The price of the T-shirt
- The number of model cars in the package
- The price of the package of model cars
- The price of each model car

- 29 What is the total value of the 8 coins below? Mark your answer.



- \$0.96
- \$1.16
- \$1.01
- \$1.06

30 What number does point  $P$  best represent on the number line? Mark your answer.

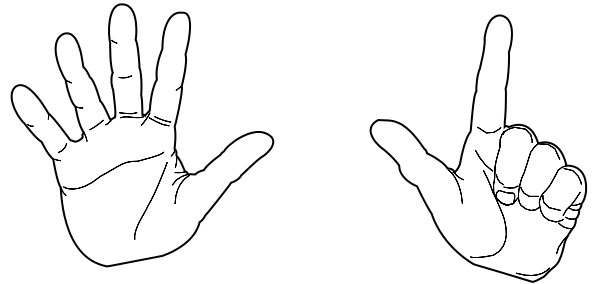


- 3
- 6
- 12
- 21

31 Which measurement best describes the length of a bed? Mark your answer.

- 6 centimeters
- 6 inches
- 6 feet
- 6 meters

32 Joel is using his fingers to count. What fraction of his fingers are folded down? Mark your answer.



- $\frac{3}{10}$
- $\frac{2}{5}$
- $\frac{3}{5}$
- $\frac{7}{10}$

33 How is the numeral 620,504 written in words? Mark your answer.

- Sixty-two thousand, five hundred four
- Six hundred twenty thousand, five hundred forty
- Six thousand, two hundred fifty-four
- Six hundred twenty thousand, five hundred four

34 School is out at 2:45 P.M. It takes Kip 30 minutes to walk to his house. At what time will he arrive at his house? Mark your answer.

- 2:15 P.M.
- 3:00 P.M.
- 3:15 P.M.
- 3:30 P.M.

35 Which figure best describes the box of cookies? Mark your answer.



- Sphere
- Cylinder
- Rectangular prism
- Pyramid

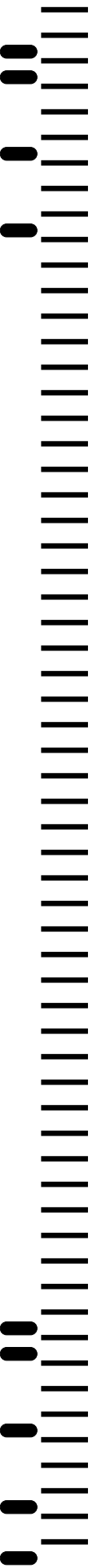
- 36** Nancy is making necklaces with an equal number of beads on each necklace. The table below shows the number of beads that she needs for different numbers of necklaces.

Nancy's Necklaces

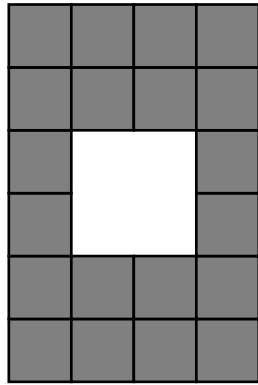
Number of Necklaces	4	5	6	7	8
Number of Beads	36	45		63	72


How many beads does Nancy need for 6 necklaces? Mark your answer.

- 62
- 56
- 54
- 48



- 37 The Turners want to paint the floor of their porch. The shaded part of the figure below shows the part of the floor that needs paint.



( = 1 square foot)

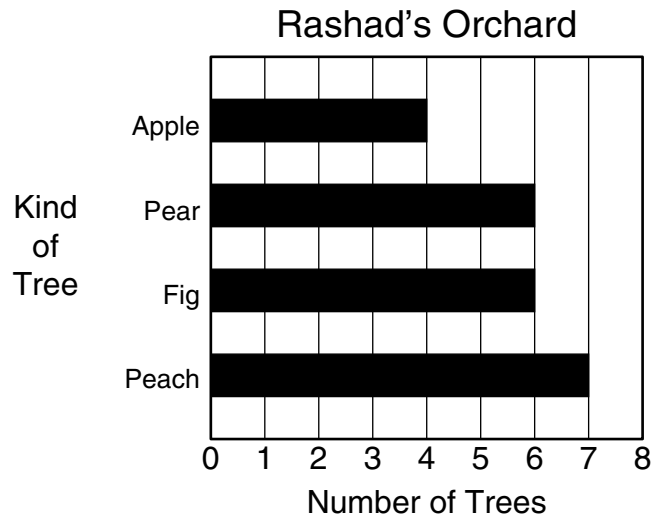
What is the area of the shaded part of the floor? Mark your answer.

- 24 square feet
- 20 square feet
- 16 square feet
- 28 square feet

- 38 Which number sentence is in the same fact family as  $10 \times 5 = 50$ ? Mark your answer.

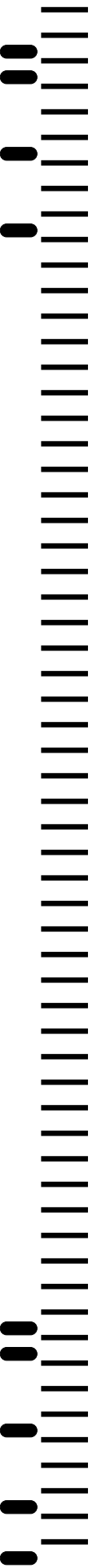
- $5 \times 5 = 25$
- $2 \times 5 = 10$
- $50 \div 10 = 5$
- $10 \div 5 = 2$

39 The graph shows how many of each kind of fruit tree are in Rashad's orchard.



How many apple trees are in Rashad's orchard? Mark your answer.

- 23
- 7
- 6
- 4



40 Look at the shape.



Which shape is congruent to the shape above? Mark your answer.

