

Mathematics Chart

LENGTH

Metric	Customary
1 kilometer = 1000 meters	1 mile = 1760 yards
1 meter = 100 centimeters	1 mile = 5280 feet
1 centimeter = 10 millimeters	1 yard = 3 feet
	1 foot = 12 inches

CAPACITY AND VOLUME

Metric	Customary
1 liter = 1000 milliliters	1 gallon = 4 quarts
	1 gallon = 128 ounces
	1 quart = 2 pints
	1 pint = 2 cups
	1 cup = 8 ounces

MASS AND WEIGHT

Metric	Customary
1 kilogram = 1000 grams	1 ton = 2000 pounds
1 gram = 1000 milligrams	1 pound = 16 ounces

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.

Continued on the next page

Mathematics Chart

Perimeter	square	$P = 4s$
	rectangle	$P = 2l + 2w$ or $P = 2(l + w)$
Area	rectangle	$A = lw$ or $A = bh$

DIRECTIONS

Read each question. Then fill in the correct answer on your answer document.

SAMPLE A

Which digit is in the thousands place in the number 61,392?

A 6

B 5

C 1



SAMPLE B

Joe has 8 books. Rob has twice as many books as Joe has.

How many books does Rob have?

F 16

G 51

H 3



1. In which number sentence does 12 make the equation true?

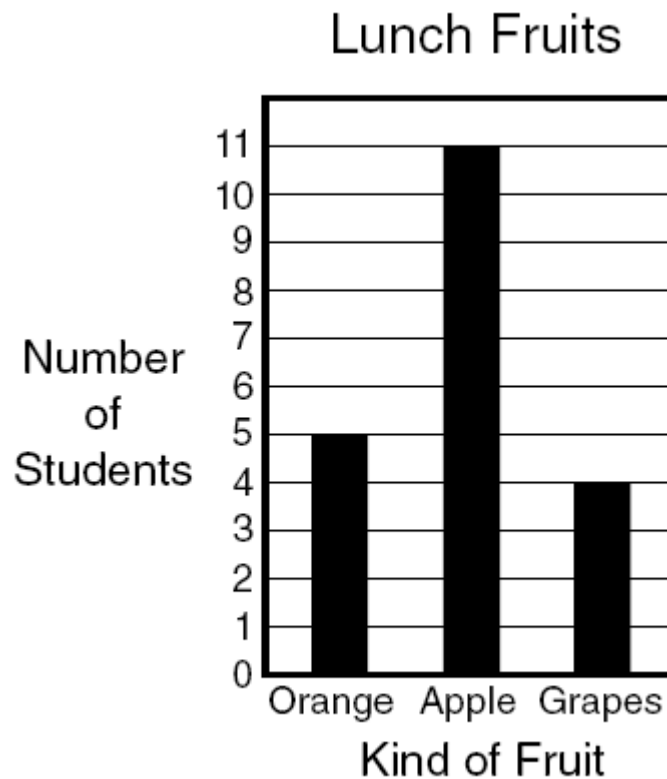
A $132 \div \square = 11$

B $100 \div \square = 4$

C $115 \div \square = 8$



2. Look at the graph. It shows the number of students and the fruit they ate with their lunch.



How many more students ate apples than grapes?

F 4

G 2

H 7



3. Which of these **polygons** has more than four sides?

A Rectangle

B Octagon

C Triangle



4. Look at the table below. The table shows how many postcards are in 3, 5, and 8 boxes.

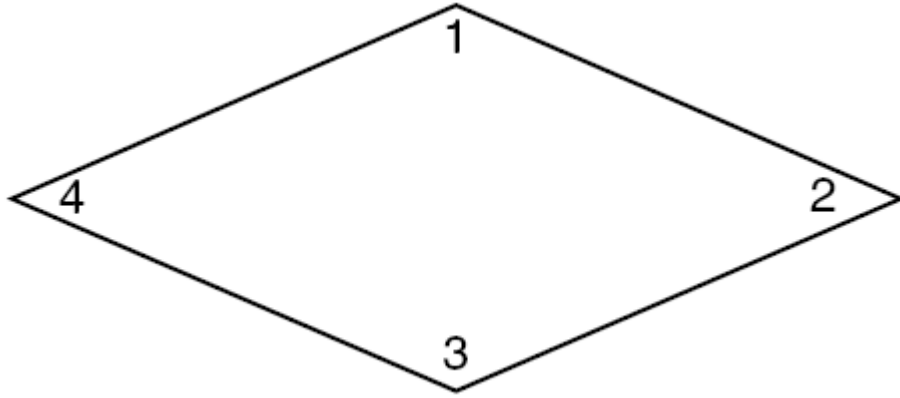
Number of Boxes	Number of Postcards
3	120
5	200
8	320
9	

Based on the pattern in the table, what should you do to find the number of postcards in 9 boxes?

- F** Multiply 9 by 40
- G** Subtract 9 from 40
- H** Add 9 to 40



5. In the figure below, which two angles appear to be obtuse?



- A Angles 2 and 4
- B Angles 1 and 3
- C Angles 1 and 4

GO ON 

6. The table below shows how many pennies were collected by three children.

Pennies Collected

Child	Number of Pennies
Katie	49
Tracy	83
Bob	59

Which is the best estimate of how many pennies were collected by the three children altogether?

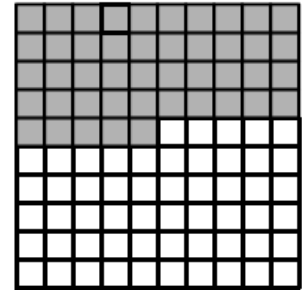
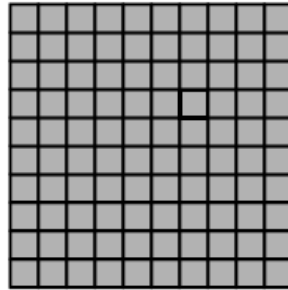
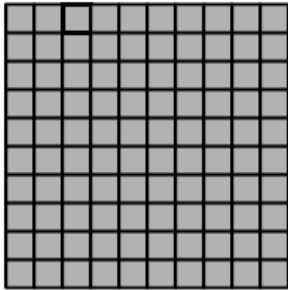
F 98

G 190

H 430



7. Look at the model. It is shaded to represent $2\frac{45}{100}$.



What decimal does the model represent?

- A** 24.5
- B** 0.00045
- C** 2.45



8. Meg made cupcakes. Meg decorated each cupcake with 10 chocolate chips.



How many chocolate chips will she need for 48 cupcakes?

- F 480
- G 935
- H 106



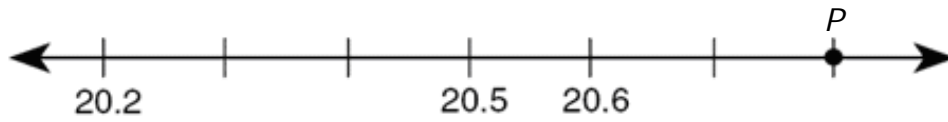
9. Which pair of numbers best completes the equation?

$$\square \times 100 = \square$$

- A** 95 and 9,500
- B** 95 and 95,000
- C** 95 and 950,000



10. Which number is best represented by point P on the number line?



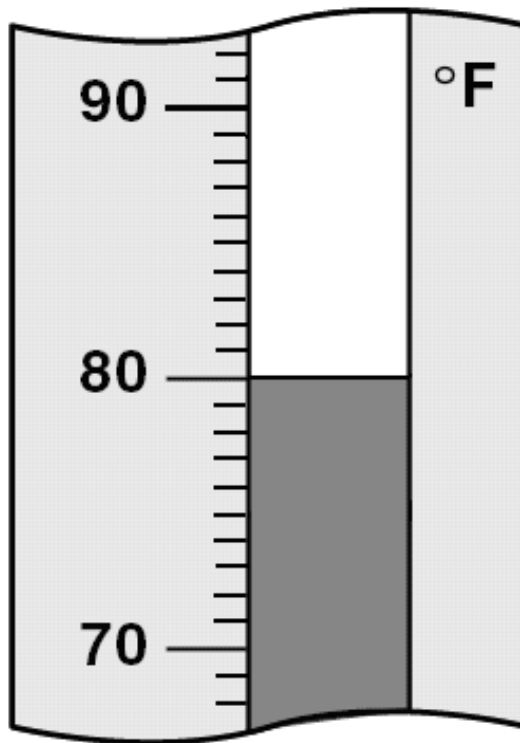
F 25.8

G 20.8

H 19.2

GO ON 

11. The thermometer below shows the high temperature for one day in May.



The low temperature for that day was 10°F lower. What was the low temperature?

- A 70°F
- B 76°F
- C 90°F



- 12.** Every day Kim and has 2 newspapers delivered to her house. When she came back from a trip, there were 14 newspapers.

Which number sentence can be used to find how many days Kim was gone?

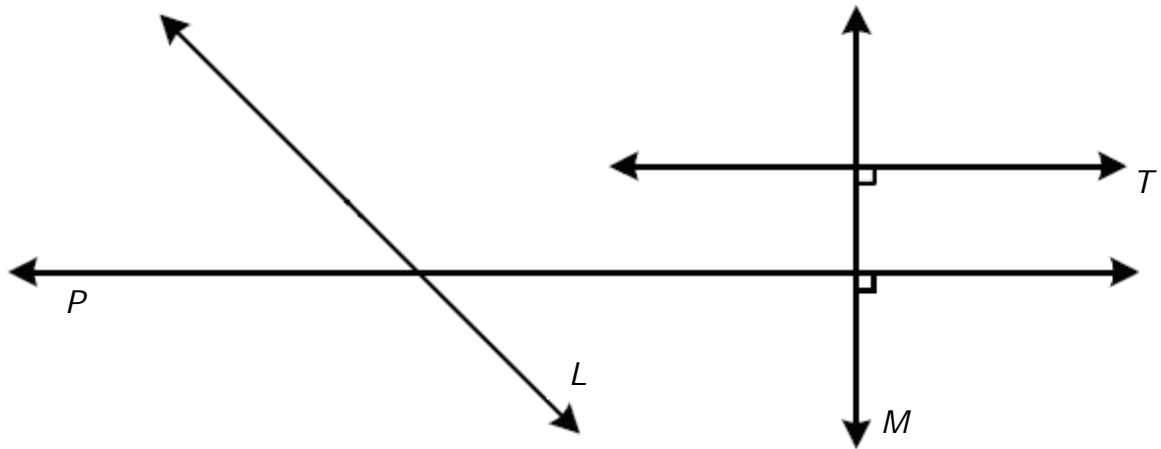
F $14 \div 2 =$

G $4 + 2 =$

H $20 - 2 =$



13. Which line is **perpendicular** to line P ?



- A Line L
- B Line T
- C Line M



- 14.** It takes Sam 6 minutes to walk to school each day. At this rate, about how many days will it take Sam to spend 60 minutes walking to school?

F 2 days

G 8 days

H 10 days

- 15.** There are 24 hours in a day and 365 days in a year. Which is the best estimate of the number of hours in a year?

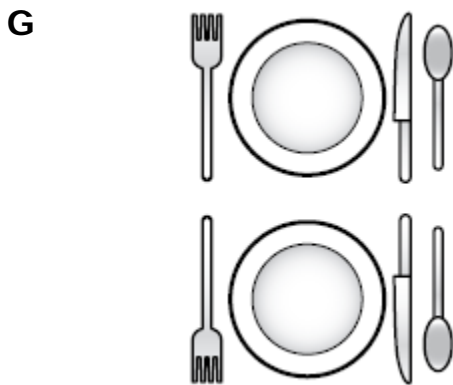
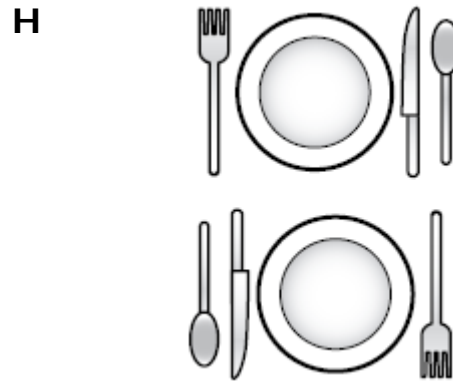
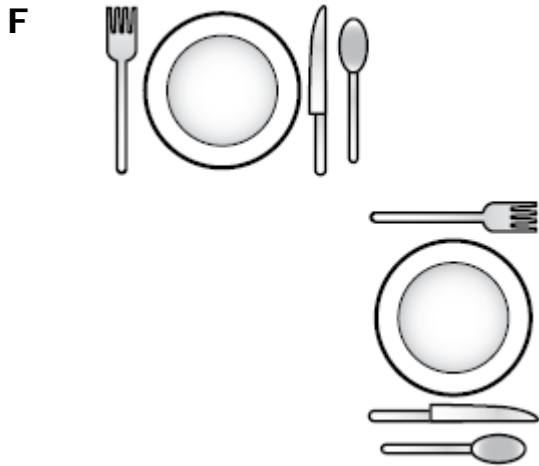
A 700 hours

B 8,000 hours

C 3,000 hours



16. Dan created a **reflection** with two place settings. Which could be the place settings he used?



GO ON 

- 17.** When Maggie went to the movie, there were 60 people. There were 5 sections for the people to sit in. Each section had the same number of people.

How many people were in each section?

A 12

B 30

C 4



- 18.** Look at the table. It shows the price for different numbers of tickets.

Number of Tickets	5	10	15	20	25
Total Price of Tickets	\$15	\$30	\$45	\$60	\$75

How can you find the price of 1 ticket?

- F** Add 3 to the number of tickets
- G** Subtract the number of tickets from the price of tickets
- H** Divide the price of tickets by the number of tickets



19. The sign below is for a beach camp.



How many nights could you stay if you had \$45.00?

- A 3
- B 7
- C 10



20. Which number makes this equation true?

$$110 \div \square = 11$$

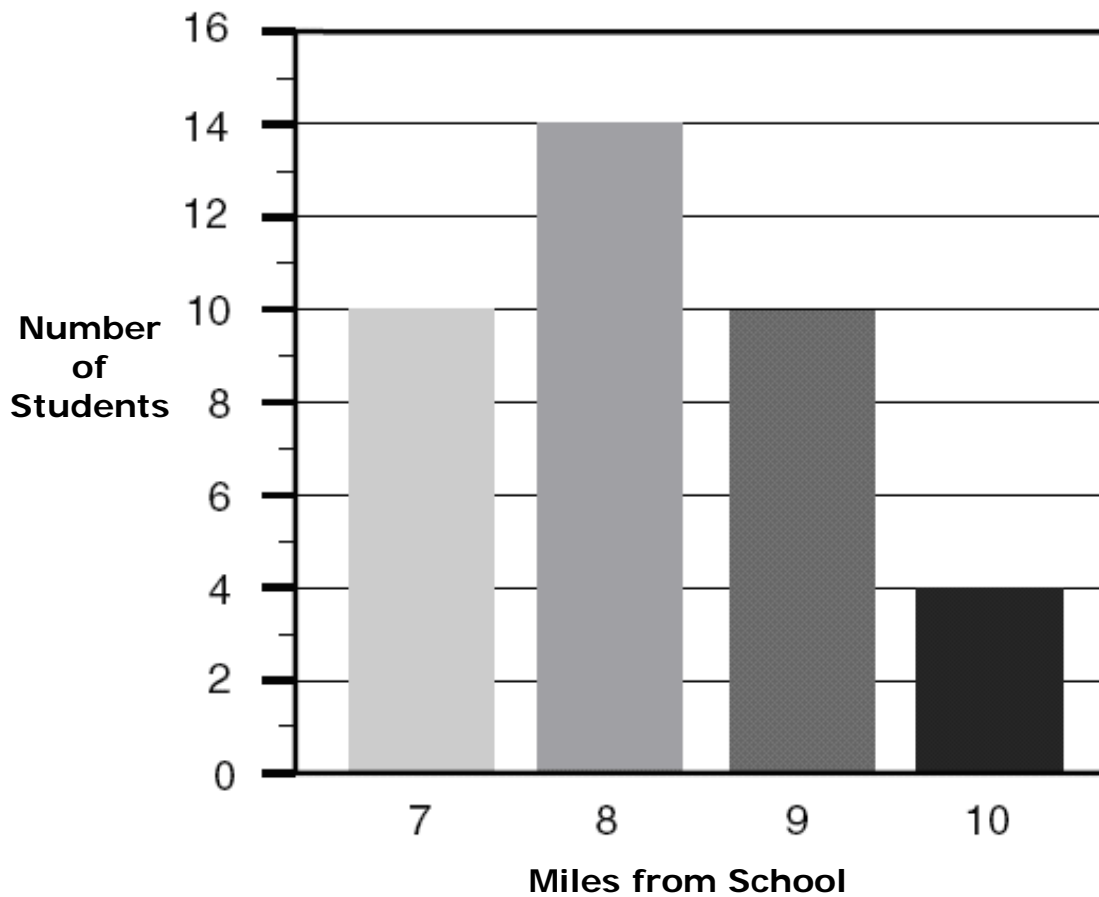
F 2

G 10

H 5



21. Look at the graph. It shows the number of miles students live from school.



How many students live 9 miles from school?

- A 2
- B 9
- C 10



22. Bill began riding horses at 3:00 P.M. He rode for 3 hours and 15 minutes. What time did Bill finish riding horses?



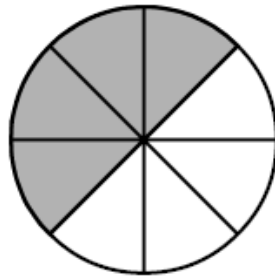
- F** 6:00 P.M.
G 3:45 P.M.
H 6:15 P.M.



23. Which of the following is another way to write the numeral 5,010,705?

- A Five hundred ten thousand, seven hundred five
 - B Five million, ten thousand, seven hundred five
 - C Five million, one hundred thousand, seventy five
-

24. Which fraction is **equivalent** to the shaded area of the circle?



- F $\frac{4}{8}$
- G $\frac{3}{5}$
- H $\frac{2}{10}$



25. Which of these units would best measure the mass of a hummingbird?

- A** Meters
- B** Kilograms
- C** Grams

26. Dan counted 10 cars on the highway in 1 minute. At this rate, how many cars will he see in 5 minutes?

- F** 25
- G** 50
- H** 70



27. The chart below shows the prices of camping equipment.

Camping Equipment

Item	Price
Tent	\$149.75
Fishing Pole	\$39.95
Cooking Gear	\$49.39
Lantern	\$29.95
Sleeping Bag	\$75.79
Camp Stove	\$65.50

Sandy and her dad had \$225.00. They bought the following:

- cooking gear
- sleeping bag
- camp stove.

They had enough money left for one more item. What could they buy?

- A** A lantern
- B** A fishing pole
- C** A tent



28. Look at the pattern.

15, 18, 17, 20, 19, 22, 21

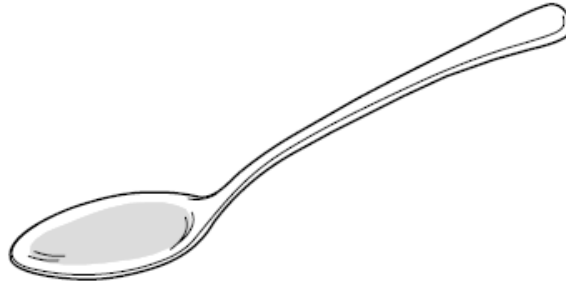
Which of the following describes the rule for this pattern?

- F** Add 1, subtract 3
- G** Add 3, subtract 1
- H** Subtract 2, multiply by 5



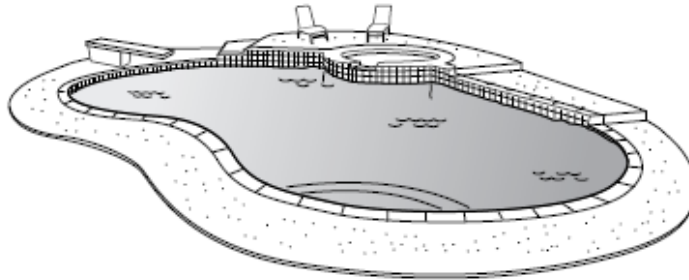
29. Which of the following holds about 1 liter of water?

A



Spoon

B



Swimming Pool

C



Fish Bowl



- 30.** Tom has 4 paint sets. There are 12 jars of paint in each set. Which number sentence can be used to find the total number of jars of paint Tom has?

F $12 \times 4 =$

G $12 - 4 =$

H $4 \div 12 =$

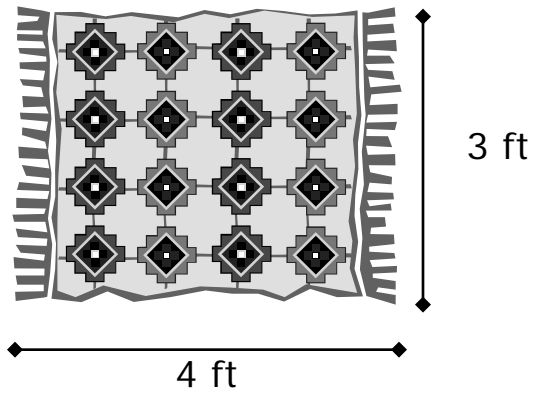


- 31.** Mary bought 1 dozen cupcakes from the bakery. How can she find the cost of 1 cupcake?
- A** Subtract the cost of a dozen from 12
 - B** Multiply a dozen by three
 - C** Divide the cost of a dozen by 12



32. Jim's rectangular blanket is 4 feet long and 3 feet wide. What is the area of his blanket?

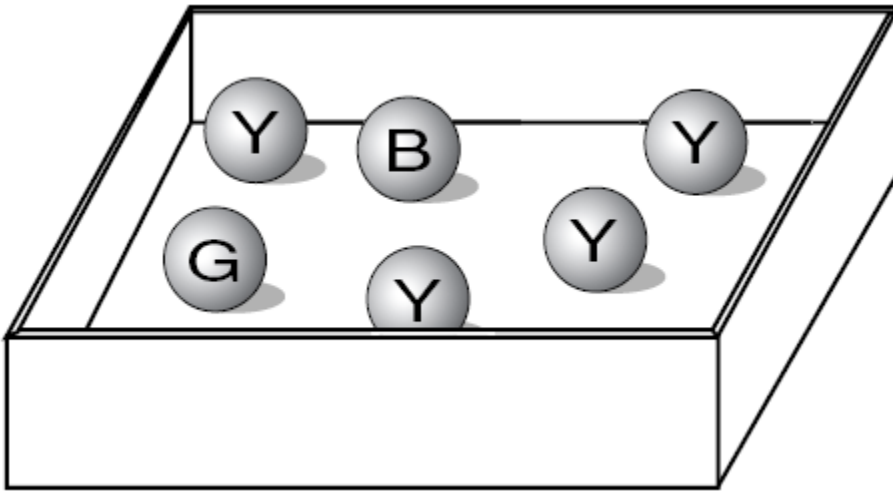
Area of a rectangle:
 $A = l \times w$



- F 20 square feet
G 6 square feet
H 12 square feet



33. Look at the box of balls.



If a student picks 1 ball without looking, what is the probability that it will have a Y on it?

- A** 1 out of 5
- B** 4 out of 6
- C** 2 out of 6



- 34.** Justin has 11 pets on his farm. He fed each pet 10 times last week. How many times in all did he feed his pets last week?

F 21

G 53

H 110

