

[A] 60 [B] 19 [C] 11 [D] 29

2. Which of the following numbers is *not* composite?

[A] 14 [B] 5 [C] 21 [D] 91

3. Which number is *not* a factor of 50?

[A] 10 [B] 25 [C] 4 [D] 5

4. List all the factors of 36.

[A] 1, 36 [B] 1, 6, 12, 60
[C] 1, 2, 3, 4, 6, 9, 12, 18, 36 [D] 1, 6, 12, 18, 24, 36

5. Write the prime factorization of 195.

[A] $3 \times 5 \times 13 \times 13$ [B] $2 \times 3 \times 5 \times 13$ [C] $1 \times 3 \times 5 \times 13$ [D] $3 \times 5 \times 13$

6. What is the greatest common factor of 80 and 32?

[A] 160 [B] 16 [C] 8 [D] 320

7. Which is *not* a multiple of 4?

[A] 20 [B] 40 [C] 8 [D] 14

8. Find the least common multiple of 32 and 80.

[A] 160

[B] 320

[C] 2560

[D] 16

9. $3\frac{3}{4} + 1\frac{1}{4}$ (Reduce your answer.)

[A] 4

[B] $4\frac{1}{4}$

[C] 5

[D] $4\frac{1}{2}$

10. $2\frac{1}{4} + \frac{7}{9}$ (Reduce your answer.)

[A] $2\frac{8}{36}$

[B] $3\frac{1}{36}$

[C] $2\frac{2}{9}$

[D] $2\frac{8}{13}$

11. $\frac{5}{9}$ (Reduce your answer.)

$$- \frac{1}{3}$$

[A] $\frac{6}{27}$

[B] $\frac{2}{9}$

[C] $\frac{4}{6}$

[D] $\frac{4}{27}$

12. $6\frac{3}{4}$
 $- 3\frac{1}{4}$ (Reduce your answer.)

[A] $3\frac{1}{4}$

[B] $\frac{1}{2}$

[C] 4

[D] $3\frac{1}{2}$

13. What is the mean of the following data?

14, 6, 2, 10

[A] 10

[B] 32

[C] 7

[D] 8

14. Find the median of 55, 72, 43, 90, and 31.

[A] 59

[B] 291

[C] 55

[D] 58.2

15. Name the mode or modes in the following sample.

14, 2, 33, 6, 21, 13, 14, 5, 6, 21

[A] 31

[B] 21, 6

[C] 6,14, 21

[D] 13.5

16. Find the range of the set of numbers.

11, 17, 23, 21, 28

[A] 16

[B] 17

[C] 20

[D] 21

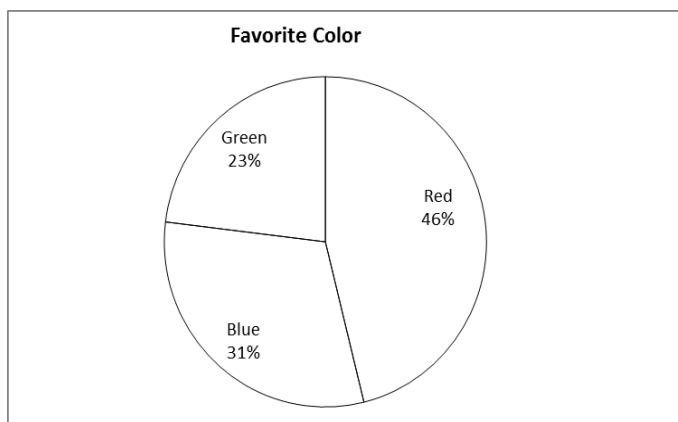
17. According to the circle graph, which is the favorite color?

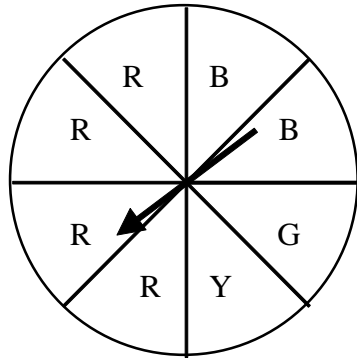
[A] Green

[B] Blue

[C] Red

[D] none of these





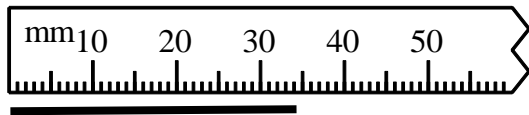
18. If you spin the spinner above, what is the probability of the pointer landing on G?

[A] $\frac{1}{2}$

[B] 1

[C] $\frac{1}{8}$

[D] $\frac{1}{4}$



19. How long is the line segment below the ruler?

[A] 35 mm

[B] 5 mm

[C] 30 mm

[D] 3.5 mm

20. A _____ would be about six inches long.

[A] hand

[B] table

[C] moving van

[D] shoe lace

21. 8 feet = ___ inches

[A] 24

[B] 80

[C] 96

[D] 288

22. Convert 6 tons to pounds.

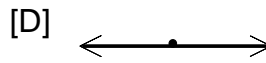
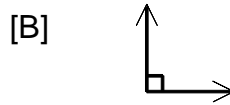
[A] 6,000 lbs.

[B] 120,000 lbs.

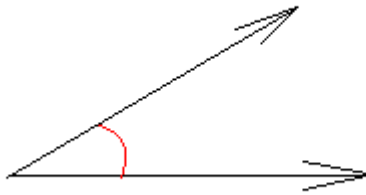
[C] 12,000 lbs.

[D] 1,200 lbs.

23. Which of the following is a right angle?



24. Estimate the measure of the angle:



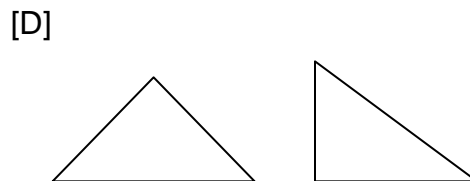
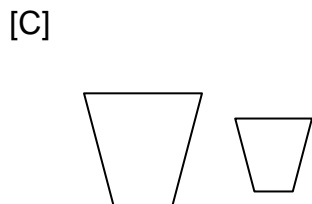
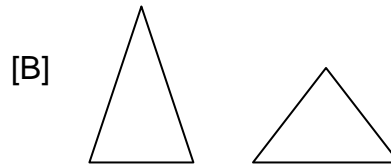
[A] 90°

[B] 70°

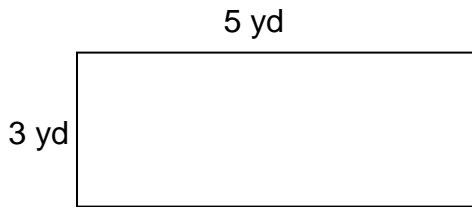
[C] 30°

[D] 120°

25. Which best represents a pair of similar figures?

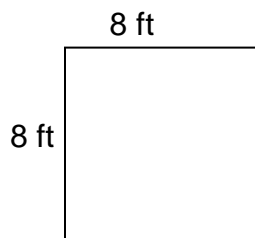


26. Find the perimeter of the rectangle.



- [A] 15 yd [B] 8 yd [C] 30 yd [D] 16 yd

27. What is the area of this square?



- [A] 32 ft² [B] 64 ft² [C] 128 ft² [D] 16 ft²

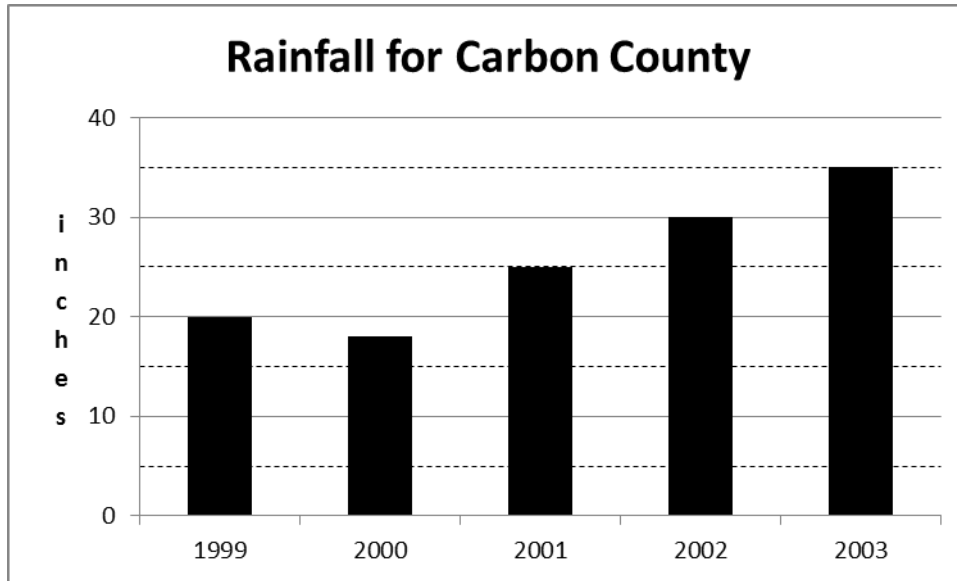
The graph below shows the number of valentines received by students.

Michael	♥ ♥
Paul	♥ ♥ ♥ ♥
Sarah	♥ ♥ ♥
Michelle	♥ ♥
Lauren	♥ ♥ ♥ ♥

Key: ♥ = 10 valentines

28. What is the difference between the number of valentines Paul and Michael received?

- [A] $1\frac{1}{2}$ [B] 20 [C] $2\frac{1}{2}$ [D] 15



29. Using the graph above, find the difference between the amounts of rainfall in the years 2001 and 2003.

- [A] 20 in. [B] 5 in. [C] 10 in. [D] 15 in.

30. Which digit is in the hundredths place in 23,894.167 ?

- [A] 8 [B] 6 [C] 7 [D] 9

31. Estimate by rounding to the greatest place: 68.4×3.1

- [A] 21 [B] 2,100 [C] 210 [D] 21,000

32. 37.16×21

[A] 74.32

[B] 111.48

[C] 780.36

[D] 445.92

33. $5 \overline{)0.7}$

[A] 14.0

[B] 0.104

[C] 0.14

[D] 1.4

34. Write $6\frac{3}{10}$ as an improper fraction.

[A] $\frac{18}{10}$

[B] $\frac{63}{10}$

[C] $\frac{57}{10}$

[D] $\frac{60}{10}$

35. Chef Emeril is going to make Salsa. Here is the recipe he will use.

Salsa
$1\frac{1}{4}$ cups of diced tomatoes
2 cup of onions
$\frac{1}{2}$ cup of red peppers
$\frac{3}{4}$ cup of jalapeno peppers
$\frac{7}{8}$ chili peppers

A. What type of peppers will Emeril use the greatest amount of?

B. How many cups of peppers are used altogether?

C. Emeril has a measuring cup that holds $\frac{1}{4}$ cup.

How many times does he fill that cup to add the $1\frac{1}{4}$ cups of tomatoes to the salsa?

Show your work clearly **or** explain your answer.