

[A] 114                      [B] 25                      [C] 13                      [D] 23

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

[A] 12                      [B] 2                      [C] 35                      [D] 51

3. Which number is *not* a factor of 40?

[A] 20                      [B] 8                      [C] 6                      [D] 5

4. List all the factors of 48.

[A] 1, 48    [B] 1, 5, 11, 55  
[C] 1, 2, 3, 4, 6, 8, 12, 16, 24, 48              [D] 1, 2, 4, 16, 24, 44, 48

5. Write the prime factorization of 285.

[A]  $3 \times 5 \times 19 \times 19$     [B]  $2 \times 3 \times 5 \times 19$     [C]  $1 \times 3 \times 5 \times 19$     [D]  $3 \times 5 \times 19$

6. What is the greatest common factor of 90 and 36?

[A] 180                      [B] 18                      [C] 6                      [D] 360

7. Which is *not* a multiple of 8?

[A] 40                      [B] 80                      [C] 16                      [D] 18

8. Find the least common multiple of 36 and 90.

[A] 180

[B] 360

[C] 3240

[D] 18

9.  $3\frac{2}{3} + 1\frac{1}{3}$  (Reduce your answer.)

[A] 4

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

[C] 5

[D]  $4\frac{2}{3}$

10.  $2\frac{1}{3} + \frac{7}{8}$  (Reduce your answer.)

[A]  $2\frac{5}{24}$

[B]  $3\frac{5}{24}$

[C]  $2\frac{2}{3}$

[D]  $2\frac{8}{11}$

11.  $\frac{5}{6}$  (Reduce your answer.)

$$\begin{array}{r} \frac{5}{6} \\ - \frac{1}{3} \\ \hline \end{array}$$

[A]  $\frac{5}{18}$

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

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

[D]  $\frac{30}{6}$

12.  $7\frac{3}{8}$   
 $- 3\frac{1}{8}$  (Reduce your answer.)

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

[B]  $\frac{5}{8}$

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

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

13. What is the mean of the following data?

15, 5, 3, 9

[A] 9

[B] 32

[C] 7

[D] 8

14. Find the median of 75, 52, 33, 80, and 21.

[A] 59

[B] 51.2

[C] 52

[D] 52.2

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

10, 6, 29, 2, 25, 17, 10, 9, 2, 25

[A] 11.3

[B] 25, 2

[C] 2, 10, 25

[D] 9.5

16. Find the range of the set of numbers.

6, 12, 28, 16, 23

[A] 16

[B] 22

[C] 17

[D] 21

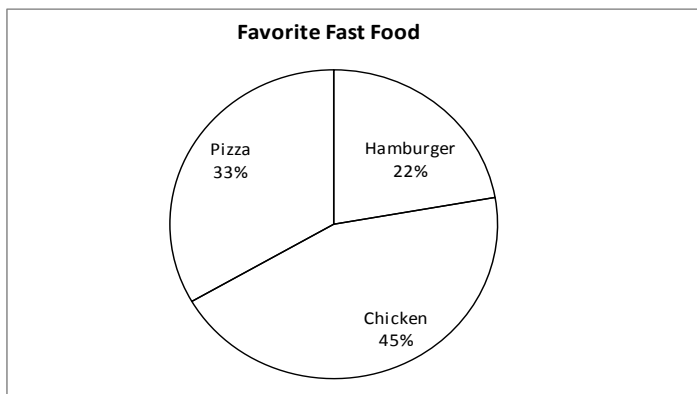
17. According to the circle graph, which is the favorite fast food?

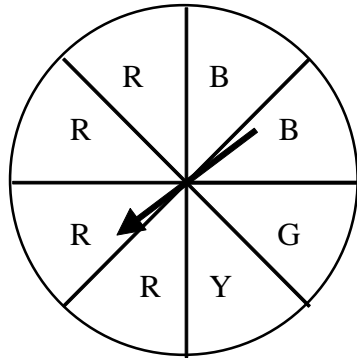
[A] Hamburger

[B] Pizza

[C] Chicken

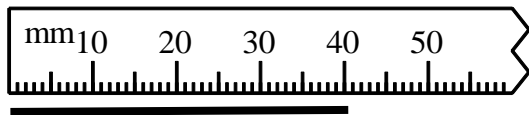
[D] none of these





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

- [A]  $\frac{1}{2}$                       [B] 1                      [C]  $\frac{1}{4}$                       [D]  $\frac{3}{8}$



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

- [A] 40 mm                      [B] 5 mm                      [C] 50 mm                      [D] 4 mm

20. A \_\_\_\_\_ would be about ten inches long.

- [A] fork                      [B] chair                      [C] truck                      [D] shoe lace

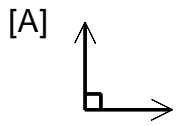
21. 5 feet = \_\_\_ inches

- [A] 15                      [B] 70                      [C] 60                      [D] 180

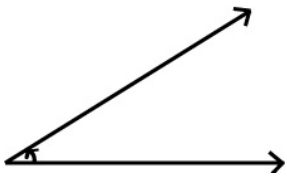
22. Convert 3 tons to pounds.

- [A] 3,000 lbs.                      [B] 60,000 lbs.                      [C] 6,000 lbs.                      [D] 600 lbs.

23. Which of the following is an obtuse angle?



24. Estimate the measure of the angle:



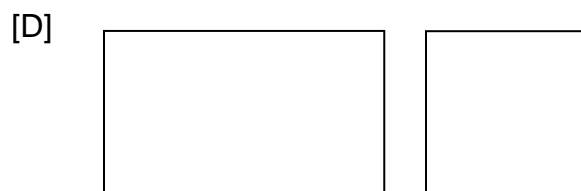
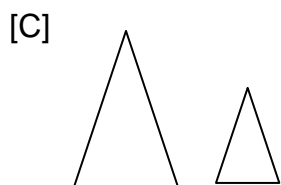
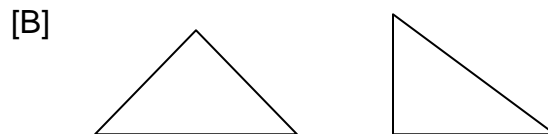
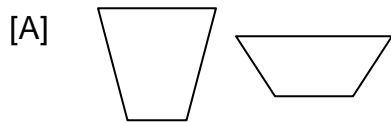
[A]  $90^\circ$

[B]  $80^\circ$

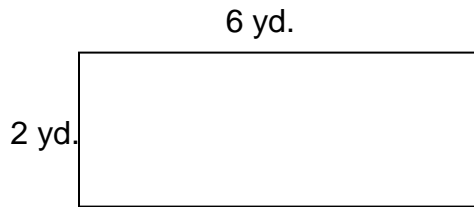
[C]  $45^\circ$

[D]  $120^\circ$

25. Which best represents a pair of similar figures?

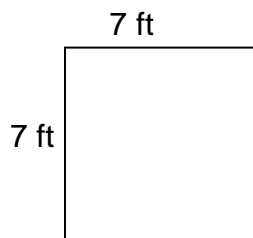


26. Find the perimeter of the rectangle.








- [A] 8 yd.                      [B] 12 yd.                      [C] 24 yd.                      [D] 16 yd.

27. What is the area of this square?



- [A] 28 ft<sup>2</sup>                      [B] 49 ft<sup>2</sup>                      [C] 98 ft<sup>2</sup>                      [D] 14 ft<sup>2</sup>

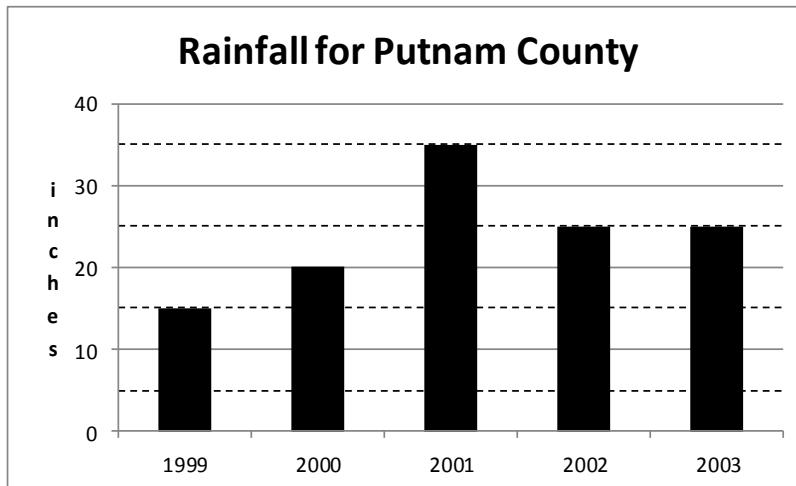
The graph below shows desserts sold by the Bakery.

Fudge Cake	
Cookie	
Banana Split	
Double Fudge Brownies	 

Key =  2 students

28. What is the difference in the number of Banana Splits sold and the number of Double Fudge Brownies sold?

- [A]  $1\frac{1}{2}$                       [B] 4                      [C]  $2\frac{1}{2}$                       [D] 5



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 45,176.328 ?

- [A] 5                      [B] 2                      [C] 8                      [D] 3

31. Estimate by rounding to the greatest place:  $86.2 \times 4.2$

- [A] 36                      [B] 3,600                      [C] 360                      [D] 36,000

32.  $28.23 \times 31$

[A] 699.99

[B] 112.92

[C] 875.13

[D] 366.99

33.  $5 \overline{)0.8}$

[A] 16.0

[B] 0.106

[C] 0.16

[D] 1.6

34. Write  $9\frac{3}{10}$  as an improper fraction.

[A]  $\frac{102}{10}$

[B]  $\frac{93}{10}$

[C]  $\frac{87}{10}$

[D]  $\frac{90}{10}$



35 Chef Rachel Ray is going to make sugar cookies. Here is the recipes she will use.

Sugar Cookies	
$1\frac{2}{3}$	cups of butter
$1\frac{5}{6}$	cups of light brown sugar
$1\frac{1}{2}$	cups of dark brown sugar
$1\frac{2}{3}$	cups of white sugar
$1\frac{3}{4}$	cups of flour

A. What type of sugar will Ms. Ray use the greatest amount of?

B. How many cups of sugar are used altogether?

C. Ms. Rlay has a measuring cup that holds  $\frac{1}{8}$  cup.

How many times does he fill that cup to add the  $1\frac{3}{4}$  cups of flour to the cookie dough?

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

Name \_\_\_\_\_

Answer Sheet/ Student Recording Sheet

		Sept	Jan	June
1. B	Solve equations with variables (A.30)			
2. B	Identify prime and composite numbers (N.4; N.5)			
3. C	List the factors of a number (N.8)			
4. C	List the factors of a number (N.8)			
5. D	Find the prime factorization of a number (N.17)			
6. B	Find the GCF for two or more numbers (N.10)			
7. D	Find the multiples of a number (N.11)			
8. A	Find the LCM of two or more numbers (N.13)			
9. C	Add mixed numbers with like denominators (F.21)			
10. B	Add fractions and mixed numbers with unlike denominators (F.21)			
11. B	Subtract fractions with unlike denominators (F.16)			
12. D	Subtract mixed numbers with like denominators (F.14)			
13. D	Describe a set of data using the mean (P.24)			
14. C	Describe a set of data using the median (P.22)			
15. C	Describe a set of data using the mode (P.23)			
16. B	Describe a set of data using the range (P.21)			
17. C	Interpret circle graphs (P.12)			
18. C	Generalize from a set of data (P.18)			
19. A	Explore measurement using millimeters (M.11)			
20. A	Estimate measurement using customary measures (M.5)			
21. C	Convert customary measurement (M.17)			
22. C	Convert customary measurement (M.17)			
23. B	Classify angles as acute, obtuse, and right (G.13)			
24. C	Estimate and measure angles in degrees (G.16)			
25. C	Identify similar figures (G.36)			
26. D	Find the perimeter of a rectangle (G.19)			
27. B	Find the area of a square (G.22)			
28. D	Interpret a Pictograph (P.9)			
29. C	Interpret a Bar Graph (P.10)			
30. B	Read and write decimal numbers to the ten thousandths (D.21)			
31. C	Round decimals to the indicated place value (D.37)			
32. C	Multiply a decimal number by a whole number (D.25)			
33. C	Divide a decimal number by a whole number (D.29)			
34. B	Convert mixed numbers to improper fractions (F.9) 1 point for correct answer of <b>frozen tomatoes.</b> 1 point for correct answer of <b>15/8 cups of tomatoes or 1 7/8 cups of tomatoes.</b> 1 point for correct answer of <b>7 times filling the measuring cup.</b>			
35. 4 points	1 point for complete picture, math sentence with correct labels or complete explanation.			