

Mark the best answer for each question.

1. Which list of fractions is ordered from least to greatest?

(A) $\frac{7}{8}, \frac{6}{7}, \frac{5}{6}, \frac{4}{5}$

(B) $\frac{4}{5}, \frac{5}{6}, \frac{6}{7}, \frac{7}{8}$

(C) $\frac{4}{5}, \frac{3}{5}, \frac{2}{5}, \frac{1}{5}$

(D) $\frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}$

2. Seventeen students already finished today's math homework. Three students did not. What fraction of the students already finished today's math homework?

(A) $\frac{17}{3}$

(B) $\frac{20}{17}$

(C) $\frac{17}{20}$

(D) $\frac{3}{20}$

3. Which fraction is equivalent to $\frac{4}{5}$?

(A) $\frac{12}{15}$

(B) $\frac{9}{12}$

(C) $\frac{8}{15}$

(D) $\frac{9}{20}$

4. Which of the following is an expanded form of 0.025?

(A) $0.2 + 0.5$

(B) $0.02 + 0.5$

(C) $0.02 + 0.05$

(D) $0.02 + 0.005$

5. Which number is equal to $\frac{5}{8}$?

(A) 0.58

(B) 0.625

(C) 0.640

(D) 5.8

6. Which statement is true?

(A) $0.5 < \frac{1}{5}$

(B) $0.375 < \frac{1}{5}$

(C) $0.375 > \frac{1}{8}$

(D) $0.875 > \frac{7}{8}$

7. Which fraction represents 35%?

(A) $\frac{7}{20}$

(B) $\frac{3}{5}$

(C) $\frac{5}{7}$

(D) $\frac{35}{10}$

Number and Operations

8. Which equation is true?

- (A) $10.0 = 100\%$
- (B) $1,600\% = 1\frac{3}{5}$
- (C) $150 = 1.5\%$
- (D) $180\% = 1.8$

9. What is the prime factorization of 32?

- (A) $2 \times 2 \times 8$
- (B) $2 \times 2 \times 2 \times 4$
- (C) $2 \times 2 \times 2 \times 2 \times 2$
- (D) $2 \times 2 \times 2 \times 2 \times 4$

10. What is the square root of 121?

- (A) 14,641
- (B) 242
- (C) 13
- (D) 11

11. Andy finished $\frac{2}{3}$ of his math homework by 4:30 P.M. He finished another $\frac{1}{6}$ of the work by 4:45 P.M. What fraction of his math homework did Andy finish by 4:45 P.M.?

- (A) $\frac{15}{6}$
- (B) $\frac{5}{6}$
- (C) $\frac{3}{9}$
- (D) $\frac{2}{18}$

12. Anita has used $\frac{3}{4}$ of her notebook paper. Brenda has used $\frac{3}{8}$ of hers. How much more of her paper has Anita used than Brenda has used?

- (A) $\frac{3}{4}$
- (B) $\frac{1}{2}$
- (C) $\frac{3}{8}$
- (D) $\frac{0}{4}$

13. Jonah's room is 3.35 meters wide and 4.15 meters long. How much greater is the length than the width?

- (A) 1.8 m
- (B) 1.2 m
- (C) 0.9 m
- (D) 0.8 m

14. Riley received some money for his birthday. He took $\frac{1}{4}$ of the money to the mall. He spent $\frac{3}{5}$ of the money he took to the mall on a gift for his brother. How much of his birthday money did Riley spend on his brother?

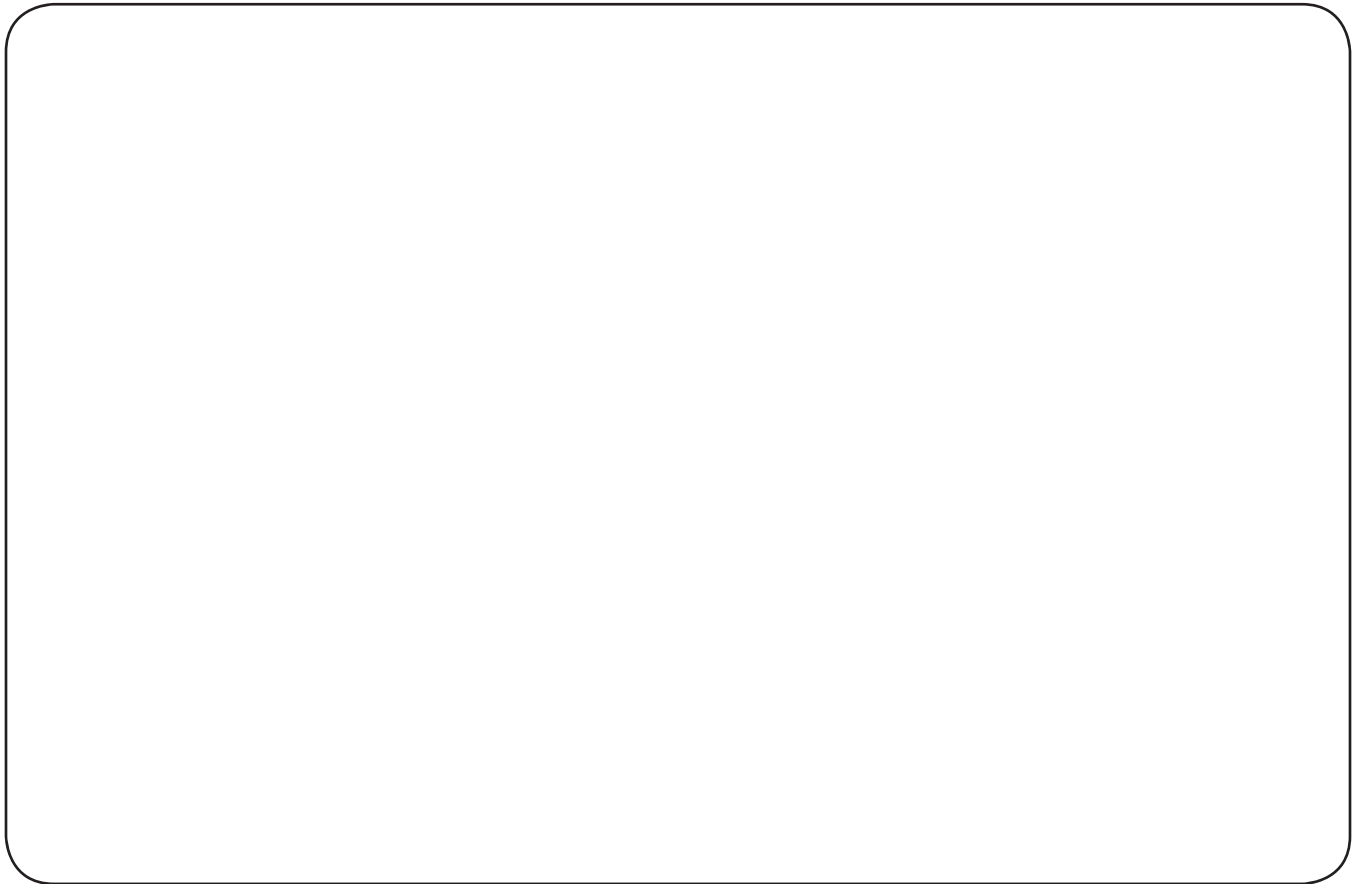
- (A) $\frac{4}{9}$
- (B) $\frac{3}{9}$
- (C) $\frac{3}{20}$
- (D) $\frac{2}{20}$

Number and Operations

- 15.** The baseball league purchased 56 bats for its 8 teams. If the bats are divided equally among the teams, how many bats does each team get?
- (A) 7
(B) 8
(C) 9
(D) 12
- 16.** One lap around the track at Wendell's school is $\frac{1}{4}$ mile. If the track is divided into 4 equal sections, what is the length of one section?
- (A) $\frac{1}{44}$ mile
(B) $\frac{1}{16}$ mile
(C) $\frac{1}{8}$ mile
(D) 1 mile
- 17.** It takes Hakeem 5.25 minutes to drive 5 miles. How long does it take him to drive 1 mile?
- (A) 0.25 minute
(B) 1.05 minutes
(C) 1.25 minutes
(D) 26.25 minutes
- 18.** Mike has 4 pennies, 3 dimes, and 5 nickels. What is the ratio of nickels to coins?
- (A) 5:1
(B) $\frac{5}{7}$
(C) 5 to 12
(D) $\frac{1}{5}$
- 19.** The ratio of girls to boys at the party is 3:2. If 12 girls are at the party, how many boys are at the party?
- (A) 8
(B) 9
(C) 11
(D) 13

Picnic Punch**Solve the problem.**

Brian is in charge of making punch for a class picnic. The recipe calls for $\frac{3}{4}$ cup of juice and 5 cups of soda. He plans to make 5 batches of the punch to serve everyone. How much juice and soda will he need to make all the punch? Show all your work using words or numbers.



Use this chart to assess the instructional needs of each student.

NUMBER AND OPERATIONS				
ITEM	ANSWER	OBJECTIVE	LESSON NO.	FOLLOW UP
1	D	Reason with fractions by comparing parts of a whole.	1	
2	C	Use fractions to describe parts of a collection.	2	
3	C	Generate equivalent fractions.	3	
4	A	Understand place value in decimal numbers.	4	
5	B	Identify equivalent fractions and decimals.	5	
6	A	Compare and order fractions and decimals.	6	
7	C	Write a number as a percent, a fraction, and a decimal.	7	
8	B	Write a number as a mixed number, a decimal, and a percent greater than 100%.	8	
9	D	Determine if a number is prime or composite and express the prime factorization of a number.	9	
10	B	Find the square of a number and the square root of a perfect square.	10	
11	D	Add fractions with unlike denominators.	11	
12	A	Subtract fractions with unlike denominators.	12	
13	D	Add and subtract decimals involving tenths and hundredths.	13	
14	B	Multiply with fractions, including a fraction with a whole number and a fraction with a fraction.	14	
15	A	Explore the meaning of division.	15	
16	C	Divide with fractions.	16	
17	C	Multiply and divide decimals to hundredths.	17	
18	B	Use ratios to represent relationships.	18	
19	C	Use proportions to represent relationships.	19	
ITEM	ANSWER	OBJECTIVE	LESSON NO.	FOLLOW UP
Fuel Mileage	Since 75 is $\frac{3}{4}$ of 100, the amount of fuel that Walter uses is $\frac{3}{4}$ of $\frac{1}{3}$ of a tank; $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{1}{4}$ of a tank.	Use number and operations skills to solve a problem.	14	

GEOMETRY				
ITEM	ANSWER	OBJECTIVE	LESSON NO.	FOLLOW UP
1	B	Recognize types of angles.	1	
2	D	Show that the sum of the measures of the interior angles of a triangle is 180°	2	
3	D	Discover the side inequality relationship for triangles.	3	
4	C	Examine the side-angle inequality relationship for triangles	4	
5	A	Identify and classify triangles.	5	
6	D	Identify and classify quadrilaterals.	6	
7	C	Identify and classify regular polygons.	7	
8	C	Identify and draw lines of symmetry in polygons.	8	
9	A	Identify parallel and perpendicular lines.	9	
10	B	Draw shapes on a coordinate grid and describe their properties.	10	
11	B	Identify and describe slides and flips.	11	