



**Objective 1  
TEKS 6.1.A Practice**

1. Which of the following rational numbers is the greatest number?

$$\frac{2}{3}, \frac{3}{4}, \frac{5}{9}, \frac{3}{7}$$

- A  $\frac{2}{3}$                       B  $\frac{3}{4}$   
 C  $\frac{5}{9}$                       D  $\frac{3}{7}$

2. During the baseball season, John's batting average was 0.246, Martin's was 0.255, and Mashath's was 0.329. Which statement about these batting averages is true?

- F  $0.246 < 0.255 < 0.329$   
 G  $0.255 < 0.246 < 0.329$   
 H  $0.329 < 0.246 < 0.255$   
 J  $0.329 < 0.255 < 0.246$

3. On a recent test, Martina earned 125 points, Jeremy earned 104 points, Pedro earned 131 points and Christina earned 129 points. Who earned the most points on this test?

- A Martina                      B Jeremy  
 C Pedro                        D Christina

4. Maria and her mother are trying to decide which school she will attend when they move next year. She may attend South City, which will be 4.2 miles away from their new house, Greenvalley, which will be 4.7 miles away, or Hopkins, which will be 4.15 miles away. Which statement below is true about these schools?

- F Greenvalley is the closest to her house.  
 G Hopkins is the closest to her house.  
 H South City is the farthest away.  
 J Hopkins is the farthest away.

5. Which of the following statements is true?

- A  $1.7 < 1\frac{1}{2} < 1\frac{2}{5} < 1.1$   
 B  $1.1 < 1\frac{2}{5} < 1\frac{1}{2} < 1.7$   
 C  $1\frac{1}{2} < 1\frac{2}{5} < 1.1 < 1.7$   
 D  $1\frac{2}{5} < 1.1 < 1.7 < 1\frac{1}{2}$

6. Martin ate  $\frac{2}{3}$  of his pizza, Gina ate  $\frac{7}{8}$  of hers, Lauren ate  $\frac{3}{4}$  of hers, and Antonio ate  $\frac{5}{6}$  of his. Who ate the least amount of pizza if all the pizzas were the same size?

- F Martin                      G Gina  
 H Lauren                     J Antonio

7. Twins Terra and Serra recently visited their doctor. Terra weighed 34.2 lb and Serra weighed 34.5 lb. Which weight is greater?

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

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

- 6.1.A** When you finish this page, you can check off a box on your TEKS Tracker, page 1.



## Objective 1 TEKS 6.1.B Practice

1. In Mr. Clark's math class,  $\frac{2}{5}$  of the students have tickets to the school play. Which decimal is equivalent to  $\frac{2}{5}$ ?

A 2.5                      B 0.2  
C 0.4                      D 4.0

2. On Friday,  $\frac{1}{6}$  of Ms. Shiu's students will be on a field trip. Which fraction is equivalent to  $\frac{1}{6}$ ?

F  $\frac{2}{7}$                       G  $\frac{4}{18}$   
H  $\frac{4}{24}$                   J  $\frac{3}{15}$

3. A truck carried 0.8 tons of gravel. Which fraction also describes the amount of gravel on the truck?

A  $\frac{8}{100}$                   B  $\frac{4}{5}$   
C  $\frac{12}{15}$                   D  $\frac{1}{8}$

4. The length of the classroom is  $5\frac{2}{3}$  yd. What is the length of the classroom expressed as an improper fraction?

F  $\frac{17}{3}$  yd              G  $\frac{10}{3}$  yd  
H  $\frac{15}{3}$  yd              J  $\frac{8}{3}$  yd

5. Which fraction is in simplified form?

A  $\frac{15}{20}$                       B  $\frac{13}{39}$   
C  $\frac{11}{12}$                       D  $\frac{5}{35}$

6. Express the mixed number  $12\frac{2}{5}$  as a decimal. Record your answer and fill in the bubbles in the grid below. Be sure to use the correct place value.

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

7. During vacation Carlos went on a 12-mile bike trip. Which improper fraction represents the same distance?

A  $\frac{1}{12}$  mi                  B  $\frac{24}{2}$  mi  
C  $\frac{2}{24}$  mi                  D  $\frac{32}{20}$  mi

8. Which of the following statements is true?

F  $\frac{2}{5} = 2.5$               G  $\frac{4}{3} = 0.75$   
H  $8\frac{1}{4} = 8.1$               J  $6\frac{2}{3} = \frac{20}{3}$

9. Which fraction is equivalent to the decimal 6.023?

A  $6\frac{23}{100}$                   B  $6\frac{23}{1000}$   
C  $6\frac{23}{10,000}$               D Not here

- 6.1.B** When you finish this page, you can check off a box on your TEKS Tracker, page 1.





## Objective 1 TEKS 6.1.D Practice

- What is the prime factorization of 36?
 

**A**  $6 \times 6$                       **B**  $3 \times 12$   
**C**  $6^2$                                 **D**  $3^2 \times 2^2$
- Which expression has the same value as  $12^3$ ?
 

**F**  $3 \times 12$   
**G**  $3^{12}$   
**H**  $12 + 12 + 12$   
**J**  $12 \times 12 \times 12$
- $2 \times 3 \times 5^2$  is the prime factorization of what number?
 

**A** 150                                **B** 60  
**C** 30                                  **D** 80
- Which of the following numbers can be written as a product of three different prime numbers?
 

**F** 45                                  **G** 24  
**H** 125                                **J** 105
- Which of the following is a prime number?
 

**A** 63                                  **B** 81  
**C** 97                                 **D** 48
- What statement is true about the number 84?
 

**F** The number is prime.  
**G** The prime factorization is  $4 \times 21$ .  
**H** The prime factorization is  $2^2 \times 21$ .  
**J** The prime factorization is  $2^2 \times 3 \times 7$ .
- Which number can be written as a product of four different prime numbers?
 

**A** 16                                  **B** 54  
**C** 210                                **D** 350

- Which of the following numbers has the greatest number of different prime factors?
 

**F** 455                                **G** 221  
**H** 40                                 **J** 330
- What number has a prime factorization of  $3^2 \times 5^2 \times 2$ ?

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

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

- What is the prime factorization for the number 210?
 

**F**  $21 \times 10$                       **G**  $2 \times 3 \times 5 \times 7$   
**H**  $6 \times 35$                         **J**  $15 \times 14$
- What is the prime factorization of the number 104?
 

**A**  $2 \times 52$                       **B**  $2^2 \times 26$   
**C**  $2^3 \times 13$                       **D** Not here

**6.1.D** When you finish this page, you can check off a box on your TEKS Tracker, page 1.



## Objective 1 TEKS 6.1.E Practice

- Which of the following integers is not a factor of 64?  
**A** 2                                      **B** 6  
**C** 32                                        **D** 16
- The integers 128 and 40 have several common factors. Which integer is **not** a common factor of 128 and 40?  
**F** 2        **G** 4        **H** 5        **J** 8
- Shuja has 38 stickers he would like to share with his friends, but he does not know how to divide them up equally. Which number below represents the number of friends that Shuja could evenly share his stickers with?

- A** 3                                      **B** 7  
**C** 14                                     **D** 19

- Two rectangular children's swimming pools are going to be built so that they share one side as shown below.



The area of the smaller pool must be 24 square yards and the area of the larger pool must be 44 square yards. Each side is an integer number of yards long. What is the greatest possible length of the common side?

- F** 2 yd                                      **G** 4 yd  
**H** 6 yd                                      **J** 8 yd

- 16 is the greatest common factor for which set of numbers?

- A** 4, 2, 1                                      **B** 32, 48  
**C** 8, 4, 2, 1                                      **D** 40, 64

- What are the factors of 56?

- F** 1, 2, 4, 7, 8, 14, 28, 56  
**G** 1, 3, 4, 7, 8  
**H** 2, 4, 6, 9, 13  
**J** 3, 6, 7, 8, 28

- What is the greatest common factor of 112 and 80?

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

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

- Which number has an odd number of different factors?

- F** 38    **G** 49  
**H** 24    **J** 91

- The numbers 3, 4, and 6 are factors of which number?

- A** 18    **B** 90  
**C** 55    **D** 24

- Which pair of numbers has 12 as their greatest common factor?

- F** 1 and 12                                      **G** 36 and 102  
**H** 76 and 144                                      **J** 180 and 408

- 6.1.E** When you finish this page, you can check off a box on your TEKS Tracker, page 1.