

# Mid-Year Review

## Test Prep

### Multiple Choice

Fill in the circle next to the correct answer.

- 13 thousands + 4 tens + 8 ones in standard form is \_\_\_\_\_. (Lesson 1.1)  
 (A) 1,348                       (B) 10,348  
 (C) 13,048                     (D) 13,480
- In the number 83,415 the value of the digit 3 is \_\_\_\_\_. (Lesson 1.1)  
 (A) 30                               (B) 300  
 (C) 3,000                         (D) 30,000
- 1,000 more than 37,568 is \_\_\_\_\_. (Lesson 1.2)  
 (A) 36,568                       (B) 37,468  
 (C) 37,668                       (D) 38,568
- Estimate  $681 - 307$  by rounding to the nearest 100. (Lesson 2.1)  
 (A) 300                               (B) 370  
 (C) 374                               (D) 400
- Which is the greatest common factor of 27 and 45? (Lesson 2.2)  
 (A) 1                                   (B) 3  
 (C) 9                                   (D) 45
- Which pair of numbers has both a prime and a composite number? (Lesson 2.2)  
 (A) 4 and 7                         (B) 3 and 13  
 (C) 14 and 28                       (D) 6 and 8

7. What is the sum of the first two multiples of 6? (Lesson 2.3)
- (A) 3    (B) 6  
(C) 12    (D) 18
8. Mr. Finch exercises at the gym every two days. Mr. Chavez exercises at the gym every five days. When will they meet next if they first met on January 5? (Lesson 2.3)
- (A) January 7    (B) January 10  
(C) January 15    (D) January 25
9. Divide 5,613 by 7. The remainder is \_\_\_\_\_. (Lesson 3.4)
- (A) 1    (B) 6  
(C) 18    (D) 81
10. After using 35 jars to store 14 marbles each, Ali has 3 marbles left. How many marbles did he have at first? (Lesson 3.5)
- (A) 52    (B) 178  
(C) 490    (D) 493
11. The table shows the medals different teams won at a competition. (Lesson 4.2)

**Number of Medals Won**

<b>Team</b>	<b>Gold</b>	<b>Silver</b>	<b>Bronze</b>
Sandcastle	3	5	8
Coral Reef	6	1	5
Sunshine	2	4	3
Sea Horse	5	2	6

At which intersection was one medal won?

- (A) Sandcastle and Gold    (B) Coral Reef and Silver  
(C) Sunshine and Bronze    (D) Seahorse and Silver

12. Find the mode. (Lesson 5.2)

31 lb    36 lb    21 lb    40 lb    38 lb    40 lb

- (A) 31 lb                      (B) 36 lb  
(C) 37 lb                      (D) 40 lb

13. Jim ordered cans of fruit cocktail for his diner for 6 months. (Lesson 5.3)

Cans of Fruit Cocktail	
Stem	Leaves
2	6 9
3	1 3 3
4	0

$$2|6 = 26$$

What is the median number of cans he ordered?

- (A) 29 cans                      (B) 32 cans  
(C) 33 cans                      (D) 40 cans
14. A bag contains 5 yellow balls and 3 green balls. Choose the correct word to describe the likelihood of drawing a yellow ball from the bag. (Lesson 5.4)

- (A) Impossible                      (B) Certain  
(C) More likely                      (D) Less likely

15. Stacy draws one of these number cards from a bag.



What is the probability that she draws a number less than 10? (Lesson 5.5)

- (A)  $\frac{1}{2}$                               (B)  $\frac{1}{3}$   
(C)  $\frac{2}{3}$                               (D)  $\frac{1}{6}$

16. Which two fractions have a sum of  $\frac{9}{10}$ ? (Lesson 6.1)

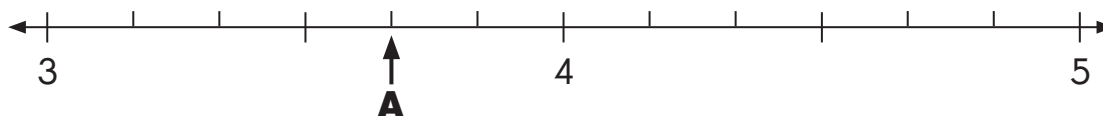
(A)  $\frac{1}{2}$  and  $\frac{4}{10}$

(B)  $\frac{1}{2}$  and  $\frac{1}{10}$

(C)  $\frac{2}{5}$  and  $\frac{1}{10}$

(D)  $\frac{3}{4}$  and  $\frac{6}{6}$

17. Which mixed number is represented by **A** on the number line? (Lesson 6.3)



(A)  $3\frac{4}{5}$

(B)  $3\frac{2}{3}$

(C)  $4\frac{1}{3}$

(D)  $4\frac{2}{3}$

18. How many fifths are in  $2\frac{3}{5}$ ? (Lesson 6.4)

(A) 10

(B) 11

(C) 13

(D) 23

19. Express  $\frac{14}{6}$  as a mixed number in simplest form. (Lesson 6.5)

(A)  $1\frac{4}{6}$

(B)  $1\frac{2}{3}$

(C)  $2\frac{2}{6}$

(D)  $2\frac{1}{3}$

20. Ms. Lee cut a piece of yarn into different fractional parts:

$\frac{1}{12}$ ,  $\frac{1}{4}$  and  $\frac{5}{12}$ . What fraction of the yarn is left? (Lesson 6.7)

(A)  $\frac{1}{4}$

(B)  $\frac{5}{12}$

(C)  $\frac{8}{12}$

(D)  $\frac{3}{4}$

## Short Answer

Read each question carefully. Write your answer in the space provided. Give your answers in the correct units.

21. Write forty thousand, sixteen in expanded form. (Lesson 1.1)

\_\_\_\_\_

22. Arrange the numbers in order from least to greatest. (Lesson 1.2)

6,407

19,999

6,047

20,005

\_\_\_\_\_

23. Estimate the quotient of  $713 \div 9$ . (Lesson 2.1)

\_\_\_\_\_

24. The table shows the number of people who visited the space ride at a theme park. Complete the table. (Lesson 4.2)

**Number of Visitors at the Space Ride**

	Male	Female	Total
Adults	18		50
Children	32	38	

Use the table to answer Exercises 25 and 26.

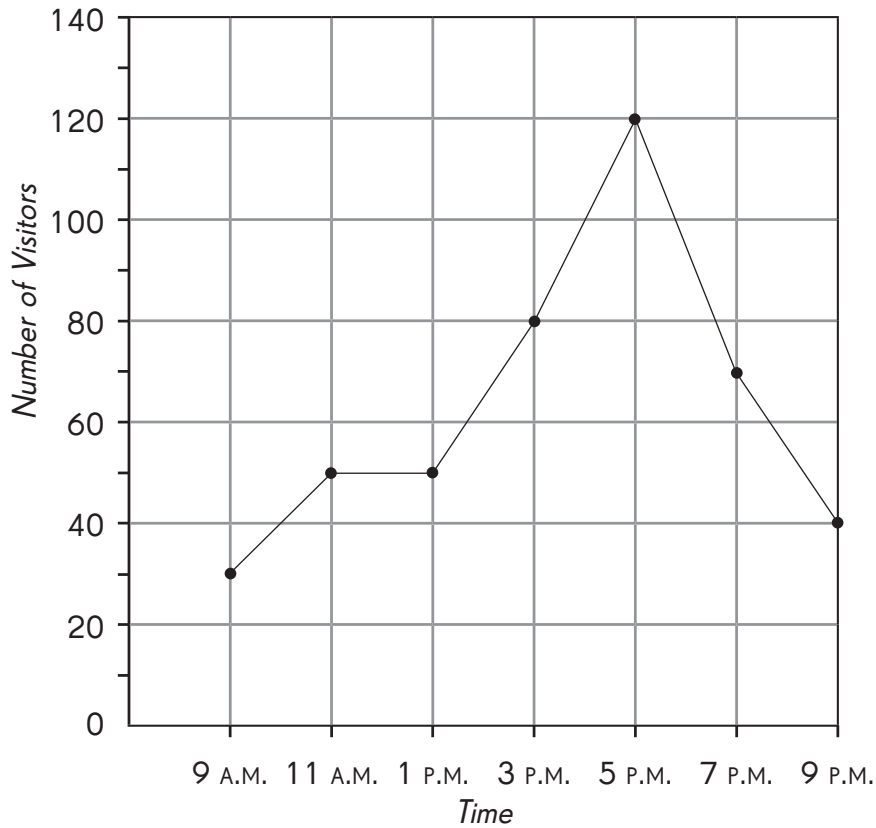
25. How many people visited the space ride? (Lesson 4.2) \_\_\_\_\_

26. What fraction of the people who visited the space ride were children? (Lesson 6.7)

\_\_\_\_\_

The line graph shows the number of visitors at a museum during the course of a day. (Lesson 4.3)

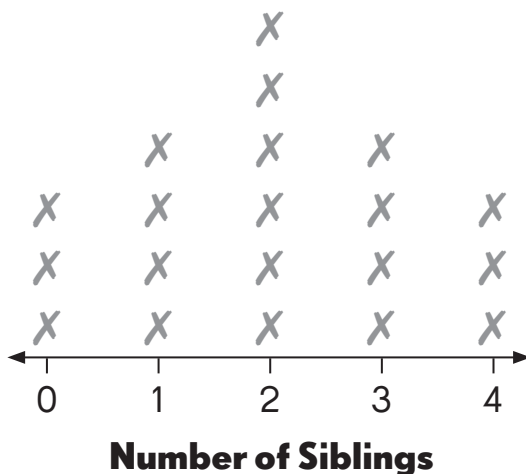
**Visitors at a Museum**



- 27.** By how much did the visitor population increase from 1:00 P.M. to 3:00 P.M.? \_\_\_\_\_
- 28.** During which interval did the visitor population decrease the most?  
\_\_\_\_\_
- 29.** During which interval did the same number of visitors arrive and depart?  
\_\_\_\_\_

**Use the line plot to solve Exercises 30 and 31.** (Lesson 5.2)

The line plot shows the number of siblings each student in John’s class has.



**30.** Find the median of the set of data. \_\_\_\_\_

**31.** Find the mode of the set of data. \_\_\_\_\_

**Use the stem-and-leaf plot to solve Exercises 32 and 33.** (Lesson 5.3)

The stem-and-leaf plot shows the number of orchids produced by 10 greenhouse plants in one month.

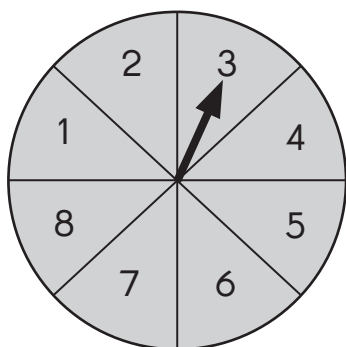
Number of Orchids	
Stem	Leaves
0	8 9
1	5 5 6
2	0 2 3 4
3	9

$0|8 = 8$

**32.** The median of the set of data is \_\_\_\_\_.

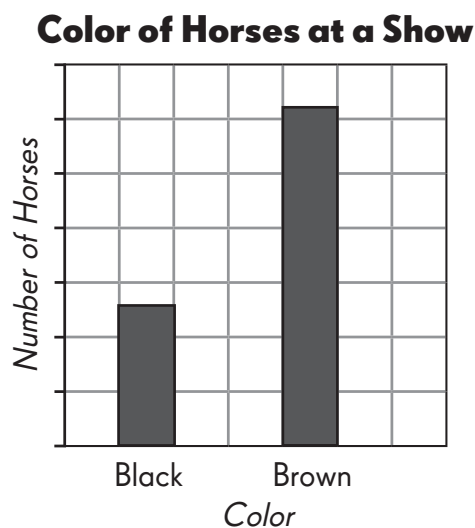
**33.** The outlier of the set of data is \_\_\_\_\_.

Look at the spinner. Write *more likely*, *less likely*, *equally likely*, *certain*, or *impossible*. Explain your answer. (Lesson 5.4)



- 34.** The spinner is \_\_\_\_\_ to land on an odd number or an even number.  
Reason: \_\_\_\_\_  
\_\_\_\_\_

The bar graph shows the color of the horses at a horse show.



- 35.** Which set is more likely to be the one shown in the bar graph? (Lesson 5.4)

**Color of Horses at a Show**

Color	Black	Brown
Set A	5	3
Set B	10	10
Set C	15	34



**Answer each question.**

- 36.** A bag has 5 red beads, 8 green beads, and 4 yellow beads. What is the probability of drawing a yellow bead from the bag? (*Lesson 5.5*)

\_\_\_\_\_

- 37.** Find the sum of  $\frac{1}{6}$ ,  $\frac{1}{6}$ , and  $\frac{2}{3}$ . (*Lesson 6.1*)

\_\_\_\_\_

- 38.** What is  $1\frac{1}{4} - \frac{5}{8}$ ? (*Lesson 6.6*)

\_\_\_\_\_

- 39.** A container and 6 lemons have a total weight of  $\frac{4}{5}$  pound. Two lemons have a total weight of  $\frac{1}{10}$  pound. Find the weight of the container if all the lemons have the same weight. (*Lesson 6.8*)
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## Extended Response

### Solve. Show your work.

- 40.** A clinic needs 1,350 chairs for a charity event. Three stores donate chairs. Store A donates 216 chairs, Store B donates 420 chairs, and Store C donates 376 chairs. Does the clinic have enough chairs? Decide if you need to find an estimate or an exact answer. (*Lesson 2.1*)
- 41.** Barrie had some stamps. He gave  $\frac{1}{8}$  of them to Tom. If he gave 15 stamps to Tom, how many stamps did he have at first? (*Lesson 6.8*)

**42.** Mr. Marchez ordered 7 books through a website. The total mass of the books was 3,458 grams. The masses of each book were

360 g    410 g    280 g    150 g    550 g    ?    ?

The masses of the remaining 2 books were not given. (*Lesson 5.6*)

**a.** Find the mean mass of the books.

**b.** Find the mean mass of the 2 remaining books.

**c.** The range of the masses is 710 grams, and the lightest mass is given above. What is the mass of the heaviest book?

- 43.** A factory packages 4,250 boxes of cereal. The number of oat cereal boxes is 715 more than the number of wheat cereal boxes. The number of fruit cereal boxes is 5 times the number of wheat cereal boxes. How many fruit cereal boxes does the factory package? (*Lesson 3.5*)

- 44.** Three people guess the number of cherries in a bag, rounded to the nearest 10. Alex guesses 80 cherries, Jess guesses 60 cherries, and Nia guesses 70 cherries. The actual number is a multiple of 7. The sum of the digits of the number is 9. Who guessed correctly? (*Lesson 2.1 and 2.2*)











