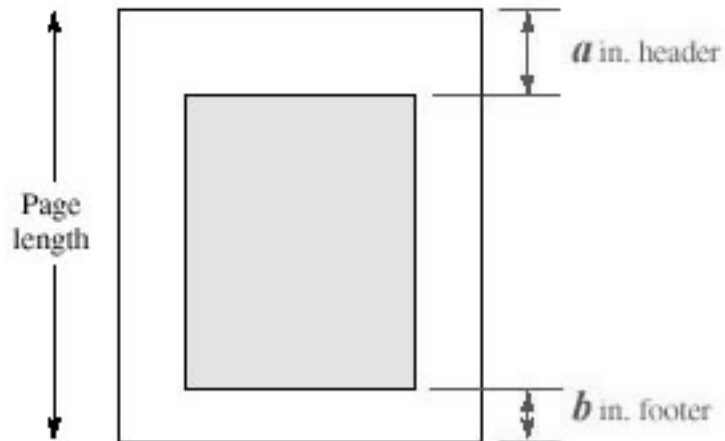


1. The page design for a magazine cover includes a blank strip at the top called a header, and a blank strip at the bottom called a footer. In the illustration below, how much page length is lost because of the header and footer, if $a = \frac{1}{10}$ and $b = \frac{4}{5}$?



- a. $\frac{9}{10}$
- b. $\frac{1}{10}$
- c. 1
- d. $\frac{8}{10}$
- e. $\frac{1}{2}$

2. Find the quotient, and select the correct answer.

$$5 \div \frac{1}{4}$$

.

- a. 20
- b. 1.25
- c. 30
- d. 1
- e. $\frac{5}{20}$

3. Change the following percent to a fraction. Simplify when necessary. Select the correct answer.

470%.

- a. $\frac{47}{10}$
- b. $\frac{47}{100}$

4. Write the phrase "5,600,000 people living in 14,000 square miles" as a unit rate. Choose your answer from below.

- a. 400
- b. 1,200
- c. 800

5. Find the difference.

$$275\frac{2}{7} - 128\frac{2}{14}$$

Select the correct answer.

- a. $147\frac{1}{14}$
- b. $147\frac{1}{7}$
- c. $147\frac{3}{7}$

6. Find the quotient and select the correct answer.

$$\frac{3}{2} \div \left(-\frac{1}{5}\right)$$

.

- a. $-\frac{14}{3}$
- b. $-\frac{17}{-1}$
- c. $-\frac{16}{7}$
- d. $\frac{20}{4}$
- e. $-\frac{15}{2}$
- f. $-\frac{12}{1}$

7. Which of the following expressions is written correctly?

- a. $8 + -3$
- b. $8 + (-3)$

8. To complete the job, Bob will have to work for 8 hours. If Bob works on the job for only 7 hours, what amount of the job will be completed? Select the correct answer.

- a. $\frac{7}{8}$
- b. $\frac{8}{7}$

9. Round the following decimal to the nearest whole number:

619.333

Select the correct answer:

- a. 619.3
- b. 620
- c. 619
- d. 619.5

10. Evaluate the expression: $(-3)(-8)(-2)$

- a. 50
- b. -48
- c. 48
- d. -50

MAT 0002
Final Review
A. Acosta

11. A bakery buys various types of nuts as ingredients for cookies. What is the cost of 25 pounds of peanuts if the price per pound of peanuts is \$7.13?

Select the correct answer:

- a. \$90.30
- b. \$17.83
- c. \$178.25

12. What number is 17% of 220?

- a. 374
- b. 3.74
- c. 37.4

13. Find the difference:

$$19 - (-2).$$

- a. -21
- b. 21
- c. 17
- d. -17

14. Round 86159 to the nearest thousand.

Select the correct answer:

- a. 86000
- b. 86,200
- c. 87,000
- d. 86,100

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15. Complete the check shown in illustration by writing *One thousand twenty-five* $\frac{87}{100}$ on the amount line.

Ellen Russell 455 Santa Clara Ave. Parker, CO 28413	April 14, 20 00
PAY TO THE ORDER OF <u>Citicorp</u>	\$ _____
	_____ DOLLARS
BA Downtown Branch P.O. Box 2456 Colorado Springs, CO 2712 MEMO <u>Mortgage</u>	<u>Ellen Russell</u>
45-82E-02-33-8660	

Select the correct answer:

- a. \$1025.87
 - b. \$102.587
 - c. \$1025.0087
 - d. \$1025.087
16. Subtract: $-46.88 - (-29.161)$

Select the correct answer:

- a. -17.719
- b. -17.619
- c. -17.718
- d. -17.83
- e. -16.594
- f. -17.739

17. Do the following division mentally:

$$- 4.117 \div 1,000$$

Select the correct answer:

- a. -0.004117
- b. 411.7
- c. $4,117$
- d. -0.04117
- e. 41.17
- f. -0.4117

18. Fractions that are greater than 1, such as $\frac{16}{6}$, are called:

- a. proper fraction
- b. improper fraction

19. Write the following mixed number as an improper fraction.

$$- 7\frac{6}{7}$$

Select the correct answer.

- a. $-\frac{13}{7}$
- b. $\frac{49}{7}$
- c. $-\frac{55}{7}$

20. Multiply: $-4.2 \cdot 1.5 \cdot (-7.9)$

Select the correct answer:

- a. -49.77
- b. 4.977
- c. 49.77
- d. 39.97
- e. -4.977

21. Round \$75240 to the nearest \$100.

Select the correct answer:

- a. \$75200
- b. \$75000
- c. \$76000
- d. \$75300

22. Find the area of the license plate in the illustration below if

$$a = 2\frac{1}{4} \text{ and } b = 4\frac{1}{4}$$



Select the correct answer.

- a. $\frac{153}{16}$
- b. $\frac{15}{16}$
- c. $\frac{128}{16}$

23. Change the following decimal to a percent. Select the correct answer.

6.27

- a. 627%
- b. 62.7%
- c. 0.0627%

24. Find the quotient: $\frac{-36}{4}$

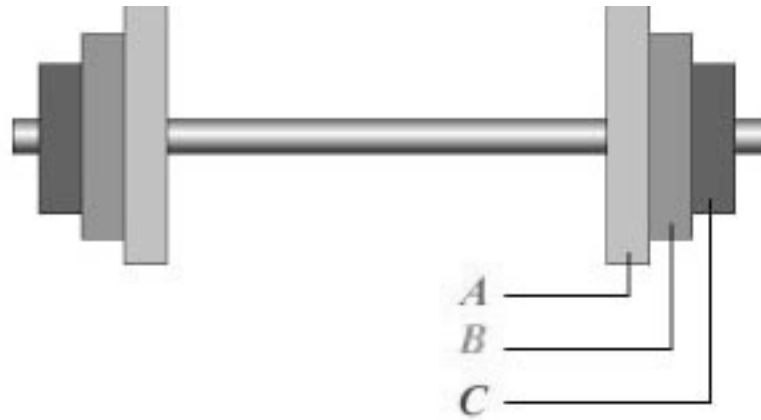
- a. 4
- b. -4
- c. 9
- d. 36
- e. -9

25. Evaluate the expression:

$$-1,034 - 1,402 - (-466).$$

- a. -1,970
- b. -2,902
- c. 1,970
- d. 2,902
- e. 98

26. The barbell illustrated below is evenly loaded with weights. If $A = 68.1$ pounds, $B = 35.9$ pounds and $C = 12.9$ pounds, how much weight is loaded on the barbell?



Select the correct answer:

- a. 233.8 pounds
 - b. 90.2 pounds
 - c. 116.9 pounds
27. From the following list of prime numbers, put a check next to those that are prime.
- a. 63
 - b. 37
 - c. 2
 - d. 6
 - e. 49
 - f. 1
 - g. 41
 - h. 48

28. Subtract:

$$791 - (293 - 74)$$

Select the correct answer:

- a. 582
- b. 424
- c. 572
- d. 1,010

29. Change the following percent to a fraction. Select the correct answer.

1.7%

- a. $\frac{17}{1000}$
- b. $\frac{17}{100}$

30. Multiply and simplify your answer if possible.

$$-3 \cdot 9\frac{1}{3}$$

Select the correct answer.

- a. 26
- b. -28
- c. 28

31. Write the following fraction in decimal form:

$$-\frac{5}{250}$$

Select the correct answer:

- a. 1,250
- b. -0.0002
- c. -0.02
- d. 0.0002
- e. -0.5
- f. 0.02
- g. none of these

32. Find the difference.

$$15\frac{2}{11} - 10\frac{1}{77}$$

Select the correct answer.

- a. $5\frac{15}{77}$
- b. $5\frac{13}{77}$
- c. $5\frac{21}{77}$

33. Multiply the fractions below and write your answer as an improper fraction.

$$2\frac{1}{3} \cdot 3\frac{1}{5}$$

Select the correct answer.

- a. $\frac{96}{15}$
- b. $\frac{28}{15}$
- c. $\frac{112}{15}$

34. Change the following fraction to a percent. Select the correct answer.

$$\frac{17}{100}$$

- a. 170%
- b. 1,700%
- c. 17%

35. Find the sum.

$$4\frac{3}{5} + 4\frac{1}{10} + 9\frac{3}{15}$$

Select the correct answer.

- a. $17\frac{7}{5}$
- b. $17\frac{27}{30}$
- c. $18\frac{27}{30}$

36. Change the following fraction to a percent. Select the correct answer.

$$\frac{8}{20}$$

- a. 80%
- b. 40%

37. Use exponents to write the following expression in a simpler form.

$$3(3)(11)(11)$$

- a. 2^{14}
- b. $3^2 \cdot 11^2$
- c. $2^3 \cdot 2^{11}$

38. Find the difference.

$$68\frac{2}{5} - 40\frac{1}{11}$$

Select the correct answer.

- a. $28\frac{27}{55}$
- b. $28\frac{7}{55}$
- c. $28\frac{17}{55}$

39. Evaluate: $\frac{-17 - 29}{-9 - 6}$

- a. $3\frac{1}{14}$
- b. $3\frac{1}{16}$
- c. $3\frac{15}{16}$
- d. $3\frac{1}{15}$
- e. $3\frac{14}{15}$

40. Evaluate the following expression:

$$42 + (-491) - 706.$$

- a. -173
- b. 257
- c. -1,155
- d. 1,239

41. Write a fraction in simplified form that expresses the ratio of 6 to 32.

- a. $\frac{6}{32}$
- b. $\frac{3}{16}$
- c. $\frac{16}{3}$

42. Evaluate the algebraic expression $\frac{5}{9} \pi r^3$ for $\pi = 3.14$ and $r = 9$

Select the correct answer:

- a. 34,335.9
- b. 1,296
- c. 1,271.7
- d. 4,120.308
- e. none of these

43. Write the following fraction in decimal form. Round to the nearest thousandth:

$$\frac{10}{21}$$

Select the correct answer:

- a. 0.476
- b. 0.478
- c. none of these
- d. 0.477

44. Find $10 \div \frac{2}{4}$. Choose your answer below.

- a. 20
- b. 40
- c. 1.25
- d. 20
- e. 30

45. Multiply. Reduce your answer to lowest terms and select the correct answer.

$$\left(-\frac{4}{6}\right) \times \left(-\frac{1}{16}\right)$$

.

- a. $\frac{4}{96}$
- b. $\frac{1}{24}$
- c. $\frac{1}{24}$

46. Divide: $(-63.09) \div (-9)$

Select the correct answer:

- a. 7.01
- b. 8.01
- c. 7.51
- d. 6.91
- e. 6.96

47. Find the sum of 7, 9, -6, and -16.

- a. -24
- b. 6
- c. 26
- d. -6

48. Write the following statement as a proportion: 40 is to 60 as 12 is to 18. Choose your answer from below.

a. $\frac{40}{18} = \frac{12}{60}$

b. $\frac{40}{60} = \frac{12}{18}$

49. Find the difference:

$-7 - 7$.

- a. -14
- b. 14
- c. 0

50. Which of the following are improper fractions?

a. $\frac{13}{7}$

b. $\frac{13}{13}$

c. $\frac{7}{7}$

d. $\frac{7}{13}$

ANSWER KEY

MAT 0002

Final Review

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1. a
2. a
3. a
4. a
5. b
6. e
7. b
8. a
9. c
10. b
11. c
12. c
13. b
14. a
15. a
16. a
17. a
18. b
19. c
20. c
21. a
22. a
23. a
24. e
25. a
26. a
27. b | c | g
28. c
29. a
30. b
31. c
32. b
33. c
34. c
35. b
36. b
37. b
38. c

ANSWER KEY

MAT 0002 Final Review

A. Acosta

- 39. d**
- 40. c**
- 41. b**
- 42. c**
- 43. a**
- 44. a**
- 45. c**
- 46. a**
- 47. d**
- 48. b**
- 49. a**
- 50. a | b | c**