



Success Center Practice Sheet

Math 93 Review

1) Write in standard form: fifteen million, sixty-two thousand, three

2) **Round**

- 43956 to the nearest ten
- 57984 to the nearest ten
- 57984 to the nearest hundred
- 3.254 to the nearest tenth
- 4.296 to the nearest hundredth

3) **Evaluate**

- $241 - 98 + 63$
- $89 + (56 + 8) - (65 - 49)$
- $(312)(206)$
- $2568 \div 12$

4) **Evaluate**

- $15 - 2(3) - 9$
- $36 \div 2 \cdot 9$
- $3(4 + 5)^2$
- $16 + 3 \cdot 2^3$

5) Find the prime factorization of 1050.

6) Find the least common multiple (LCM) for:

- 3 and 5
- 12 and 45

7) Write $5\frac{2}{3}$ as an improper fraction.

8) Write $\frac{31}{8}$ as a mixed number.

9) **Multiply and simplify**

- $\frac{2}{5} \cdot \frac{4}{3}$
- $5 \cdot \frac{3}{25} \cdot \frac{10}{6}$
- $2\frac{3}{4} \cdot 4\frac{2}{3}$

10) **Divide and simplify**

a. $\frac{3}{8} \div \frac{2}{5}$

b. $2 \div \frac{1}{3}$

c. $3\frac{1}{2} \div \frac{5}{6}$

11) **Add/Subtract and simplify**

a. $\frac{5}{8} + \frac{3}{8}$

b. $\frac{3}{10} + \frac{3}{4}$

c. $3\frac{2}{5} + 8\frac{2}{3}$

d. $6\frac{3}{5} - 4\frac{3}{4}$

12) **Evaluate**

a. $2.75 + 4 + 0.3$

b. $12.62 - 9.172$

c. $(1.23)(2.5)$

d. $2.16 \div 0.3$

13) **Evaluate**

a. $\left(\frac{2}{3}\right)^2 \div \frac{4}{5} \cdot 3 - \frac{4}{3}$

b. $\frac{3}{2} + \frac{1}{2} \cdot \frac{3}{5}$

c. $\left(\frac{3}{8} - \frac{1}{8}\right)^2 + \frac{3}{16}$

d. $\frac{1.6+0.2^2}{0.8}$

14) **Change to a decimal**

a. $\frac{51}{1000}$

b. $\frac{5}{8}$

c. 21.5%

d. 3.6%

15) **Change to a percent**

a. 0.23

b. 0.038

c. 0.9

d. $\frac{3}{8}$

16) **Change to a fraction and simplify**

- a. 0.152
- b. 26%
- c. $3\frac{1}{3}\%$

17) **Solve for n**

- a. $\frac{6}{n} = \frac{8}{12}$
- b. $\frac{2}{5} = \frac{n}{4}$

18) Thomas worked 8 hours and packed 90 cartons of books. At this rate, how many cartons can he pack in 12 hours?

19) **Solve**

- a. 15% of what number is 1.2?
- b. 30 is 5% of what number?
- c. 25% of 60 is what number?
- d. 16 is what percent of 50?
- e. 66 is what percent of 60?

20) One-third of Susan's weekly salary of \$282 is spent on food. How much does she spend on food?

21) A \$175 suit is on sale for 20% off. What is the sale price of the suit?

22) **Perform the following operations**

- a. $-6 + 10$
- b. $-3 - 5$
- c. $4 - (-7)$
- d. $(-3)(5)$
- e. $-3 + 2 - 4 - 5 + 8$
- f. $(-3)(-6)(-2)$
- g. $-4(-6 - 1)$
- h. $(-2)(8) + (-5)(-2)$
- i. $(-5)^2$
- j. $\frac{-12}{-4}$

23) **Solve for the variable**

- a. $5x + 8 = 23$
- b. $-2n - 12 = -4$
- c. $\frac{a}{3} = 10$
- d. $5y = 2y - 15$

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Answers

1) 15,062,003

2) a. 43,960

b. 57,980

c. 58,000

d. 3.3

e. 4.30

3) a. 206

b. 137

c. 64,272

d. 214

4) a. 0

b. 162

c. 243

d. 40

5) $2 \cdot 3 \cdot 5^2 \cdot 7$

6) a. 15

b. 180

7) $\frac{17}{3}$

8) $3\frac{7}{8}$

9) a. $\frac{8}{15}$

b. 1

c. $\frac{77}{6}$ or $12\frac{5}{6}$

10) a. $\frac{15}{16}$

b. 6

c. $\frac{21}{5}$ or $4\frac{1}{5}$

11) a. 1

b. $\frac{21}{20}$ or $1\frac{1}{20}$

c. $12\frac{1}{15}$

d. $1\frac{17}{20}$

12) a. 7.05

b. 3.448

c. 3.075

d. 7.2

13) a. $\frac{1}{3}$

b. $\frac{9}{5}$ or $1\frac{4}{5}$

c. $\frac{1}{4}$

d. 2.05

14) a. 0.051

b. 0.625

c. 0.215

d. 0.036

15) a. 23%

b. 3.8%

c. 90%

d. 37.5%

16) a. $\frac{19}{125}$

b. $\frac{13}{50}$

c. $\frac{1}{30}$

17) a. $n = 9$

b. $n = \frac{8}{5}$ or $1\frac{3}{5}$

18) 135 cartons

19) a. 8

b. 600

c. 15

d. 32%

e. 110%

20) \$94

21) \$140

22) a. 4

b. -8

c. 11

d. -15

e. -2

f. -36

g. 28

h. -6

i. 25

j. 3

23) a. $x = 3$

b. $n = -4$

c. $a = 30$

d. $y = -5$