

exam: 186305RR - Fractions, Percents, Proportions, and Angles

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**Questions 1 to 20:** Select the best answer to each question. Note that a question and its answers may be split across a page break, so be sure that you have seen the *entire* question and *all* the answers before choosing an answer.

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1. What is the product of  $\frac{2}{10}$  and  $\frac{4}{9}$ ?

- A.  $\frac{11}{14}$
- B.  $\frac{9}{20}$
- C.  $\frac{4}{45}$
- D.  $\frac{6}{19}$

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2. What is the product of  $\frac{2}{8}$  and  $\frac{3}{5}$ ?

- A.  $\frac{7}{11}$
- B.  $\frac{3}{20}$
- C.  $\frac{5}{12}$
- D.  $\frac{5}{13}$

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**3.** Write the decimal 0.006 as a fraction.

- A.  $\frac{6}{10,000}$
- B.  $\frac{6}{1,000}$
- C.  $\frac{6}{10}$
- D.  $\frac{6}{100}$

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**4.** Your monthly bill for machine parts is \$2,628.53. If you pay the bill within 15 days, you'll receive a 2% reduction. What will your bill be if you pay it within the allotted time?

- A. \$2,602.24
- B. \$2,681.10
- C. \$2,549.67
- D. \$2,575.96

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**5.** What is the quotient of  $\frac{8}{11}$  divided by 4?

- A.  $1\frac{1}{11}$
- B.  $\frac{2}{11}$
- C.  $\frac{8}{15}$
- D.  $2\frac{10}{11}$

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6. There are 15 printers in one department. If  $\frac{2}{5}$  are color printers, how many can only print black and white?
- A. 2
  - B. 3
  - C. 9
  - D. 6

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7. What is the upper limit if a tolerance is given as  $4\frac{3}{4}$  plus or minus  $\frac{1}{64}$ ?
- A.  $4\frac{45}{64}$
  - B.  $4\frac{48}{64}$
  - C.  $4\frac{47}{64}$
  - D.  $4\frac{49}{64}$

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8. Find the value of  $11\frac{3}{8} - \frac{7}{8}$ .
- A.  $10\frac{1}{2}$
  - B.  $11\frac{1}{2}$
  - C.  $11\frac{1}{8}$
  - D.  $10\frac{1}{8}$

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9. You've just placed an order for a set of tools for a new employee. The cost of the tools is \$185.95. If you must pay 4% sales tax on the purchase, how much will you pay for the tools? (Round your answer to

two decimal places. Note: This question requires two calculations.)

- A. \$193.39
- B. \$197.11
- C. \$195.25
- D. \$178.12

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**10.** Express the fraction  $\frac{2}{7}$  as a rounded decimal.

- A. 2.86
- B. 0.286
- C. 2.85
- D. 0.285

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**11.** An electric heater uses  $\frac{3}{5}$  watts of power each hour. How many watts of power will the heater use in 3 hours?

- A.  $\frac{4}{15}$
- B.  $1\frac{4}{5}$
- C.  $\frac{3}{15}$
- D.  $1\frac{1}{5}$

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**12.** What is the quotient of  $\frac{3}{4} \div \frac{7}{8}$ ?

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

- B.  $\frac{11}{12}$
- C.  $\frac{5}{8}$
- D.  $\frac{21}{32}$

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**13.** How many  $1\frac{1}{2}$  foot pieces of pipe can you cut from a 12-foot pipe?

- A.  $7\frac{1}{2}$
- B.  $10\frac{1}{2}$
- C. 18
- D. 8

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**14.** Corrugated Specialties produces boxes of all kinds. During a normal month, they manufacture an average of 67,500 shirt-size boxes. During November and December, they've been told to increase production by 35%. How many boxes should they attempt to produce in November and December? (Note: This question requires two calculations.)

- A. 23,450
- B. 90,450
- C. 91,125
- D. 23,625

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**15.** The lowest common denominator of  $\frac{3}{4}$ ,  $\frac{4}{5}$ , and  $\frac{2}{3}$  is

- A. 20.
- B. 12.
- C. 60.

**D. 15.**

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**16.** Which one of the following pairs represents equivalent fractions?

**A.**  $\frac{3}{5}$  and  $\frac{3}{10}$

**B.**  $\frac{1}{8}$  and  $\frac{3}{8}$

**C.**  $\frac{3}{4}$  and  $\frac{9}{12}$

**D.**  $\frac{9}{8}$  and  $\frac{16}{15}$

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**17.** An angle that measures 78 degrees 14 minutes and 16 seconds is a/an \_\_\_\_\_ angle.

**A.** right

**B.** acute

**C.** obtuse

**D.** straight

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**18.** Change 68.33% to a decimal.

**A.** 6.833

**B.** 68.33

**C.** 683.3

**D.** 0.6833

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**19.** Express the fraction  $\frac{3}{8}$  as a decimal.

- A. 0.380
- B. 0.180
- C. 0.125
- D. 0.375

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**20.** Which one of the following pairs represents *like* fractions?

- A.  $\frac{3}{2}$  and  $\frac{2}{3}$
- B.  $\frac{6}{7}$  and  $1\frac{5}{7}$
- C.  $3\frac{1}{2}$  and  $4\frac{3}{4}$
- D.  $\frac{5}{6}$  and  $\frac{10}{12}$

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End of exam