



## NMAT Quantitative Aptitude Practice Questions

## Set 2: Problem Solving

**Directions:** This section contains word problems which you should solve by applying basic math concepts. Choose the best answer from the given choices.

1. Three people who work full-time are to work together on a project, but their total time on the project is to be equivalent to that of only one person working full-time. If one of the people is budgeted for one-half of his time to the project and a second person for one-third of her time, what part of the third worker's time should be budgeted to this project?

- A. 13
- B. 35
- C. 16
- D. 18

2. A farmer has  $7\frac{3}{4}$  rows of radishes in one field,  $4\frac{3}{4}$  rows of radishes in another field, and  $6\frac{1}{4}$  rows of radishes in a third field. How many rows of radishes does he have altogether?

- A.  $18\frac{3}{4}$
- B.  $17\frac{7}{12}$
- C.  $17\frac{1}{2}$
- D.  $17\frac{3}{4}$

3. Dr. Warren purchased some medical supplies for \$670. Sales tax rate was 6.5%. How much did Dr. Warren spend on these supplies?

- A. \$43.55
- B. \$711.25
- C. \$4355.00
- D. \$713.55



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4. In a given course, a student receives preliminary examination grades of 81, 85, and 95. The final examination is weighed for one-third and the average of the preliminary grades is weighed as  $\frac{2}{3}$  of the final grade. What should the final examination grade be for a semester average of 90?

- A. 99
- B. 96
- C. 93
- D. 88

5. When each of the sides of a square is increased by 1 yard, the area of the new square is 53 square yards more than that of the original square. What is the length of the sides of the original square?

- A. 25
- B. 26
- C. 27
- D. 52

6. A soccer team played 160 games and won 65 percent of them. How many games did it win?

- A. 94
- B. 104
- C. 114
- D. 124

7. A repaving crew is putting a new surface on 79 kilometers of road. They have completed 28 kilometers. If they repave 3.4 kilometers per day in the next several days, how many more days will it take them to finish?

- A. 15



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- B. 32.5
- C. 14.5
- D. 23

8. The Williams family wants to cover one wall in their living room with 1-foot square mirror tiles. The wall measures 8 feet by 10 feet. How many mirror tiles will they need to cover the wall?

- A. 8
- B. 10
- C. 18
- D. 80

9. The perimeter of a square is 20. Which of the following represents the area?

- A. 5
- B. 10
- C. 20
- D. 25

10. The main road in Belleville is  $7\frac{3}{10}$  miles long. So far,  $2\frac{3}{4}$  miles have been repaved. How many miles have not been repaved?

- A.  $4\frac{11}{20}$
- B.  $5\frac{11}{20}$
- C.  $4\frac{1}{6}$
- D.  $5\frac{1}{6}$



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11. A box in a college bookstore contains books, and each book in the box is a history book, an English book or a science book. If one-third of these books are history books and one-sixth are English books, what fraction of the books are science books?

- A.  $\frac{1}{3}$
- B.  $\frac{1}{2}$
- C.  $\frac{2}{3}$
- D.  $\frac{3}{4}$

12. Which of the following is the smallest?

- A.  $11\frac{1}{5}$
- B.  $\frac{4}{5}$
- C.  $2\frac{1}{25}$
- D.  $\frac{5}{6}$

13. Kenji has 8 apple trees that each produces about 20 bushels of apples, and 12 apple trees that each produces about 25 bushels. In total, about how many bushels of apples do his trees produce?

- A. 45
- B. 900
- C. 460
- D. 300

14. At a certain convention, the ratio of men to women was 3 to 8. If there were 352 people there, how many were men?

- A. 32
- B. 96
- C. 132



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D. 220

15. The measures of two angles of a triangle are  $35^\circ$  and  $45^\circ$ . What is the measure of the third angle of the triangle?

- A.  $95^\circ$
- B.  $100^\circ$
- C.  $105^\circ$
- D.  $110^\circ$

16. Last year, about 2,400 people participated in a local Fourth of July parade. This year, about 3,200 people participated. What was the approximate percent increase in participation?

- A. 25%
- B. 50%
- C. 75%
- D. 33%

17. A person travels to work at an average speed of 40 mph, and returns home at 60 mph. Which of the following, in mph, is the average speed for the entire trip?

- A. 45
- B. 46
- C. 48
- D. 52

18. Erica bought  $3\frac{1}{2}$  yards of fabric. If she uses  $\frac{2}{3}$  of the fabric to make a curtain, how much will she have left?

- A.  $\frac{1}{6}$  yd.



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- B.  $\frac{1}{3}$  yd.
- C.  $1\frac{1}{6}$  yd.
- D.  $2\frac{1}{3}$  yd.



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