


Math Competition Test—5th Grade

1. Add $7\frac{3}{4}$ and $3\frac{6}{7}$:
 A. $11\frac{4}{7}$ B. $10\frac{4}{7}$ C. $11\frac{17}{28}$ D. $10\frac{21}{28}$
2. Write 25% in reduced fraction form.
 A. $\frac{25}{100}$ B. $\frac{12}{50}$ C. $\frac{5}{20}$ D. $\frac{1}{4}$
3. Rewrite $\frac{6}{16}$ as a percentage.
 A. 6.16% B. 0.375% C. 3.75% D. 37.5%
4. While on a road trip with your parents, you decide to keep track of the speed of the car. For 2 hours and 30 minutes, the car is travelling at 55 mph, for 2 hours it is travelling at 65 mph, and for 1 hour and 15 minutes you are traveling at 60 mph. What percentage of the trip is the car travelling at or above 60 mph? (Round to the nearest tenth of a percent.)
 A. 57.8% B. 34.8% C. 35.7% D. 56.5%
5. Write forty-seven thousandths in standard form.
 A. 0.0047 B. 0.0470 C. 0.4700 D. 47
6. If Greg saves 15% of his paycheck each week, and his weekly paycheck is \$750, how much will he have saved in 12 weeks?
 A. \$112.50 B. \$135.00 C. \$1350.00 D. \$1125.00
7. What time is shown on the clock to the right?
 A. 8:50
 B. 7:10
 C. 8:10
 D. 7:50


8. Evaluate $3\frac{1}{3} - 2\frac{3}{4} =$
 A. $1\frac{7}{12}$ B. $\frac{7}{12}$ C. $1\frac{2}{3}$ D. $\frac{2}{3}$
9. What is 0.8 written as a fraction reduced to lowest form?
 A. $\frac{1}{8}$ B. $\frac{8}{10}$ C. $\frac{80}{100}$ D. $\frac{4}{5}$
10. Katie wants to buy a new backpack for school so she begins saving. She puts aside \$5 the first week and \$3 the next. She is able to keep up this pattern where one week she saves \$5 and \$3 the next. How long will it take to save up for a \$35 backpack?
 A. 8 weeks B. 9 weeks C. 10 weeks D. 7 weeks

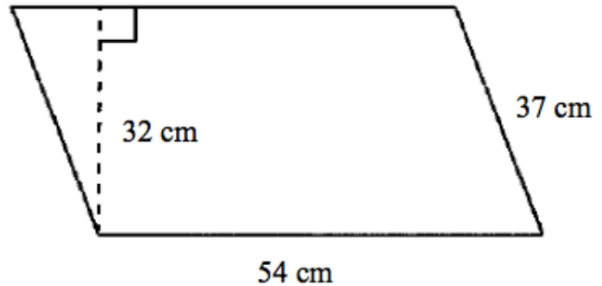
11. What digit is in the ten thousands' place in 193,268,074?
A. 7 B. 6 C. 2 D. 1
12. Every year, James measured the height of a tree in his backyard. When he was eight-years-old, the tree was 14 feet tall. When he was nine-years-old, the tree was 18 feet tall. When he was 10-years-old, the tree was 22 feet tall. If the pattern continues, how old will James be when the tree is 34 feet tall?
A. 12 B. 13 C. 14 D. 15
13. Write 12% in reduced fraction form.
A. $12/100$ B. $6/50$ C. $3/25$ D. $3/20$
14. On the first day of harvest, Carl goes to his orchard and picks three boxes of apples, on the second day he picks 5 boxes, and on the third 7 boxes. If he continues to get better at picking at the same rate, how many boxes will he pick on the seventh day?
A. 15 B. 13 C. 11 D. 9
15. At full price, the latest gadget will cost you one-third of your savings. Luckily, you are able to buy it on sale for $4/5$ of the full price. What fraction of your savings did you spend?
A. $6/15$ B. $4/15$ C. $5/12$ D. $5/8$
16. What is 60% of 350?
A. 200 B. 210 C. 160 D. 175
17. Compute the prime factorization of 210.
A. $6 \times 5 \times 7$ B. 21×10 C. $2 \times 3 \times 5 \times 7$ D. $3 \times 3 \times 5 \times 7$
18. Which of the following is NOT true?
A. $-0.2 \geq -0.3$ B. $-1.2 \leq -2.3$ C. $5/2 \geq 25/10$ D. $4/3 \geq 1 \frac{1}{2}$
19. What is 7020.698 rounded to the nearest 10?
A. 7020 B. 7021 C. 7020.7 D. 7000
20. Evaluate $5 \frac{1}{3} \times 2 \frac{2}{7} =$
A. $12 \frac{4}{21}$ B. $10 \frac{2}{21}$ C. $10 \frac{4}{21}$ D. $12 \frac{2}{21}$
21. Linda wants to buy a skateboard that costs \$138.00, but she has saved only one-quarter of that cost. How much more money does Linda need to save before she has enough to buy the skateboard?
A. \$34.50 B. \$69.00 C. \$103.50 D. \$98.50

22. $2.647 =$

- A. twenty-six and forty-seven hundredths
- B. six and two hundred forty-seven thousandths
- C. two and six hundred seventy-four thousandths
- D. two and six hundred forty-seven thousandths

23. What is the area of the parallelogram?
(Not drawn to scale)

- A. 1998 cm^2
- B. 1184 cm^2
- C. 1728 cm^2
- D. 864 cm^2



24. How many feet are in 340 inches?

- A. $27 \frac{1}{4}$
- B. $28 \frac{1}{4}$
- C. $27 \frac{1}{3}$
- D. $28 \frac{1}{3}$

25. How many inches are in 9.5 feet?

- A. 114 inches
- B. 108 inches
- C. 95 inches
- D. 113 inches

26. Which of the following is TRUE?

- A. $\frac{1}{4} > \frac{1}{3}$
- B. $\frac{2}{4} < \frac{1}{3}$
- C. $\frac{5}{2} = \frac{25}{10}$
- D. $\frac{5}{4} \geq \frac{25}{15}$

27. What digit is in the one-hundred thousands place in 954,230,489?

- A. 4
- B. 2
- C. 3
- D. 9

28. What is the nearest integer to 1.55?

- A. 1.5
- B. 1
- C. 2
- D. 15

29. Round 67.3293 to the hundredths place.

- A. 67.30
- B. 67.329
- C. 67.32
- D. 67.33

30. Write seventeen thousand, six hundred forty-two in standard form.

- A. 170,462
- B. 17,642
- C. 1,742
- D. 1,642

31. Write $6 \frac{5}{12}$ as an improper fraction.

- A. $\frac{65}{12}$
- B. $\frac{30}{12}$
- C. $\frac{72}{12}$
- D. $\frac{77}{12}$

32. Multiply 10.01×23.456 and round to the thousandths place.

- A. 234.790
- B. 234.795
- C. 23.479
- D. 234.800