LEVEL A, SKILL 1

Be sure to show all work. No calculators allowed.

1. What is the prime factorization of 200?
2. What is \( \frac{2}{5} \) as a decimal?
3. How many perfect squares are less than 100?
4. What is 30\% of 500?
5. What is the smallest number divisible by 2, 3, and 5?
6. Compute: \( 5 + 4/2 - 3^2 \)
7. What is \( 3 \frac{1}{4} \) divided by \( 2 \frac{1}{2} \)?
8. What is the reciprocal of \( 4 \frac{3}{4} \)?
9. What is the mean of the first four perfect squares?
10. If Jamar got 21 questions right out of 25 questions on a test, what percent did he miss?
11. What number divided by 2 is 3?
12. How many inches in a yard?
13. What percent of 12 is 3?
14. Add \( \frac{1}{4} \), 20\% and .04 (express your answer as a fraction).
15. What is product of the smallest four odd Natural numbers?
LEVEL A, SKILL 2

1. What is the sum of the factors of 24?

2. Compute: \(3 + 5 \times 3 - 9\)

3. What is the reciprocal of \(\frac{24}{5}\)?

4. What percent of 20 is 5?

5. What is the GCF of 20 and 50?

6. What is \(3\frac{3}{5}\) minus \(1\frac{2}{3}\)?

7. What is 5 less than the cube of 8?

8. I had 40 marbles. I gave \(\frac{1}{5}\) of them to Stacie. I then gave \(\frac{1}{7}\) of the remaining marbles to Brian. How many did I end up with?

9. Express \(\frac{4}{5}\) as a percent.

10. Multiply .2, 25%, and \(\frac{2}{5}\). Express the answer as a decimal.

11. If Sarah got 48 out of 50 correct on her math test, what is her percent wrong?

12. What is 55% as a fraction?

13. What is the smallest number that has 2, 3, and 10 as factors?

14. Multiply \(2\frac{3}{4}\) by \(3\frac{1}{2}\).

15. 20% of what number is 30?
1. What is 40% of 300?

2. Change \(3\frac{4}{5}\) into an improper fraction.

3. How many ways can you make change for a quarter, using any combination of pennies, nickels, or dimes?

4. What is 5% as a decimal?

5. If five rabbits cost $120, how many could I buy for $360?

6. What two numbers have a sum of 24 and a product of 143?

7. Compute: \(\frac{3}{5} + \frac{2}{3}\)

8. Compute: \(\frac{2}{3}\)

9. If I start with 100 marbles and I give \(\frac{4}{5}\) to Courtney, and I then give \(\frac{1}{4}\) of the remaining marbles to Lance, how many do I end up?

10. Compute: \(5 + 3(4 - 2) + 6/3\)

11. What is the GCF of 12 and 15?

12. What is the product of the factors of 10?

13. If Jamie got 22 out of 25 questions correct on a test, what is her percent right?

14. How many pounds are in a ton?

15. Find ?: \(3, -5, 7, -9, ?\)
LEVEL A, SKILL 4

1. How many inches are in 3 yards?

2. What is 70% expressed as a fraction?

3. Express $\frac{4}{5}$ as a percent.

4. 20% of what number is 12?

5. How many ways can I make change for $1 using any combination of dimes and quarters?

6. Compute: $4 - \frac{(4 + 2 \times 3)}{5 + 10}$

7. Find $3\frac{1}{3}$ subtracted from $5\frac{1}{2}$.

8. What is the LCM of 50 and 75?

9. What is the prime factorization of 500?

10. I started with 50 marbles. I gave Paul $\frac{1}{5}$ of them. I then gave $\frac{1}{8}$ of the remaining marbles to Lacy. How many do I have left?

11. What is the product of the first 4 even numbers?

12. Express $\frac{1}{3}$ as a decimal.

13. What is 12 less than the quotient of 100 and 5?

14. What number squared is 4 less than itself cubed?

15. How many feet in a mile?

Answers

1. ____________

2. ____________

3. ____________

4. ____________

5. ____________

6. ____________

7. ____________

8. ____________

9. ____________

10. ____________

11. ____________

12. ____________

13. ____________

14. ____________

15. ____________
LEVEL A, SKILL 5

1. Change 24% into a fraction.

2. What is the reciprocal of $4\frac{1}{10}$?

3. What percent of 20 is 2?

4. If I started with 30 marbles and I gave $\frac{1}{3}$ to Alika, and I then gave $\frac{1}{2}$ of the remaining marbles to Tracy, how many did I end up with?

5. What is $3\frac{1}{3}$ divided by $2\frac{1}{3}$?

6. How many pounds are in $1\frac{1}{2}$ tons?

7. Compute: $\frac{3}{3}$

8. What is the GCF of 50, 70, and 100?

9. What numbers out of 2, 3, 4, 5, 6, 8, 9, and 10 divide evenly into 23,450?

10. How many ways can I make change for $5 using only quarters and $1 bills?

11. Find the reciprocal of $\frac{4}{5}$ squared.

12. Compute: $10 - 4 \times 2 - 3(3 \times 2) + 12$

13. Which is larger: $\frac{1}{3}$ of 96 or $\frac{1}{4}$ of 124

14. Change $\frac{7}{8}$ into a percent.

15. What is $66\frac{2}{3}$% as a decimal?

Answers

1. ____________

2. ____________

3. ____________

4. ____________

5. ____________

6. ____________

7. ____________

8. ____________

9. ____________

10. ___________

11. __________

12. ___________

13. __________

14. __________

15. ___________