

**SPU MATHEMATICS
PROFICIENCY TEST
SAMPLE**

1. The Colhards bought a stereo for \$563. They paid \$143 down and will pay the remainder in 12 equal payments. How much will each payment be?

A \$11.92
B \$25.00
C \$35.00
D \$58.83
E None of these

2. Roscoe purchased a TV and made a down payment of \$80.

If the down payment was $\frac{1}{6}$ of the purchase price, what was the purchase price?

A \$400
B \$480
C \$500
D \$560
E None of these

3. A recipe calls for $2\frac{3}{4}$ cups of flour. If you wish to double the recipe, how much flour would be needed?

A $4\frac{3}{8}$ cups
B $4\frac{3}{4}$ cups
C $5\frac{1}{4}$ cups
D $5\frac{1}{2}$ cups
E None of these

4. $0.5 \times 1.2 =$

A 1.7
B 6
C 30
D 60
E None of these

5. What is the simple interest on \$2000 at 8% annually for $\frac{1}{4}$ year?

A \$40
B \$42
C \$160
D \$2040
E None of these

6. A car went 245 miles on 14 gallons of gasoline. What was the average number of miles per gallon?

A 17
B 17.05
C 17.5
D 17.7
E None of these

7. If the perimeter of a rectangle is 36 inches and one side is 12 inches long, what are the dimensions of the rectangle?

A 12" by 3"
B 12" by 6"
C 12" by 12"
D 12" by 24"
E None of these

8. If $x = 2$ and $y = -3$, what is the value of $3x - y + 4$?

A -1
B 7
C 13
D 18
E None of these

9. If $5x - 8 = 2x + 1$, then $x =$

A -3
B 2
C 6
D 12
E None of these

10.
$$\begin{array}{r} 600 \\ \times 800 \\ \hline \end{array}$$

A 4,800
B 48,000
C 480,000
D 4,800,000
E None of these

11. How many 4 ounce servings can be made with two 46 ounce cans of juice?

A 11.5
B 20.5
C 23
D 92
E None of these

12. $7 \times \frac{3}{4} =$

A $\frac{3}{28}$
B $\frac{21}{28}$
C $\frac{10}{11}$
D $\frac{10}{4}$
E None of these

13. A share of stock was bought for 31 and sold for $22\frac{3}{8}$. How much was lost?

A $8\frac{5}{8}$
B 9
C $9\frac{3}{8}$
D $9\frac{5}{8}$
E None of these

14. 0.0024×1000

A 0.002400
B 0.24
C 2.4
D 24
E None of these

15. Out of 75 free-throw attempts, a basketball player made 45. What percent were made?

A 6%
B 30%
C 35%
D 60%
E None of these

16. Find the average of 8, 2, 5, 11, 14.

A 5
B 8
C 10
D 40
E None of these

17. 5.67 mm = _____ cm

- A 0.0000567
- B 0.00567
- C 0.567
- D 56.7
- E None of these

18. $7 - (-3) =$

- A -21
- B -4
- C 4
- D 10
- E None of these

19. Three times a given number minus five equals seven. What is the given number?

- A $\frac{2}{3}$
- B 2
- C 3
- D 4
- E None of these

20. $\frac{4}{15} \times \frac{3}{4} =$

- A $\frac{1}{6}$
- B $\frac{1}{5}$
- C $\frac{1}{4}$
- D $\frac{1}{3}$
- E None of these

21. Round 38,452 to the nearest thousand.

- A 38,000
- B 38,500
- C 39,000
- D 40,000
- E None of these

22. $\frac{3}{2} \div \frac{27}{8}$ equals _____ when reduced to simplest form.

- A $\frac{4}{9}$
- B $\frac{24}{54}$
- C $2\frac{1}{4}$
- D $5\frac{1}{16}$
- E None of these

23. How many pounds of roast beef will be needed to serve 56 people if each gets $\frac{3}{8}$ lb?

- A 20 lbs
- B 21 lbs
- C 24 lbs
- D $\frac{448}{3}$ lbs
- E None of these

24. $6.25 \div 0.5 =$

- A 0.125
- B 1.25
- C 12.5
- D 125
- E None of these

25. 30% of what is 27?

- A .9
- B 8.1
- C 81
- D 810
- E None of these

Answers:

1	C
2	B
3	D
4	E
5	A
6	C
7	B
8	C
9	E
10	C
11	C
12	E
13	A
14	C
15	D
16	B
17	C
18	D
19	D
20	B
21	A
22	A
23	B
24	C
25	E