

Number Skills Review

1. $-5+7$

- A) 12 B) -2 C) 2 D) -12 E) -35
-

2. $-4-(-6)$

- A) 2 B) -2 C) 24 D) -10 E) -24
-

3. $-15-10$

- A) 1 B) 25 C) 5 D) -25 E) -5
-

4. -3×5

- A) 2 B) 15 C) -2 D) $\frac{5}{3}$ E) -15
-

5. $-8\times(-9)$

- A) 72 B) -1 C) 17 D) 1 E) -72
-

6. $(-24\div 4)\div 2$

- A) 1 B) -12 C) 2 D) -3 E) 12
-

7. 2^4

- A) 24 B) 8 C) 16 D) 42 E) -2
-

8. 6^2+4^2

- A) 52 B) 42 C) 100 D) 10000 E) 56
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9. $\frac{3}{4} - 2\frac{1}{3}$

A) -4 B) $-\frac{25}{4}$ C) $-\frac{37}{12}$ D) $-\frac{7}{12}$ E) $-\frac{19}{12}$

10. $-\frac{2}{3} + \frac{1}{2}$

A) $-\frac{3}{5}$ B) $-\frac{1}{5}$ C) $-\frac{1}{6}$ D) $\frac{1}{6}$ E) $\frac{1}{5}$

11. $-\frac{2}{3} \times 1\frac{3}{4}$

A) $-1\frac{1}{2}$ B) $-\frac{7}{6}$ C) $\frac{1}{6}$ D) 5 E) $\frac{13}{12}$

12. $5 \div \left(-\frac{3}{4}\right)$

A) $\frac{1}{2}$ B) 96 C) $-\frac{15}{4}$ D) $-\frac{20}{3}$ E) $\frac{20}{3}$

13. $\frac{1}{2} - \frac{3}{4} \times \frac{2}{3}$

A) $-\frac{1}{6}$ B) -1 C) 1 D) $\frac{1}{4}$ E) 0

14. $30 \div (5 - 15)$

A) -9 B) -3 C) 9 D) -300 E) 3

15. $\frac{5^2 - 4}{-3}$

A) -2 B) $-\frac{1}{3}$ C) -7 D) 2 E) 7

16. $\left(-2\frac{2}{3}\right) + \left(1\frac{1}{6}\right)$

A) $-\frac{28}{9}$ B) $\frac{3}{2}$ C) $\frac{23}{6}$ D) $-\frac{3}{2}$ E) $-\frac{9}{6}$

17. $\frac{4}{5} \cdot \frac{15}{8}$

A) $\frac{3}{2}$ B) $\frac{5}{3}$ C) $-\frac{3}{2}$ D) $\frac{107}{40}$ E) $\frac{32}{75}$

18. $\frac{(3-7)^2}{8} \cdot \frac{-3+1}{2^3}$

A) $\frac{1}{2}$ B) 1 C) $-\frac{1}{4}$ D) -1 E) $-\frac{1}{2}$

19. The following ratio 12:36:54, in simplest form is:

- A) 2:6:8 B) 1:3:4 C) 1:2:3 D) 2:6:9 E) 12:36:48
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20. Mark makes \$66 in 4 hours. What is his hourly rate of pay?

- A) \$16.5 B) \$16 C) \$18.65 D) \$62 E) \$264
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21. Solve for x.
 $\frac{3}{9} = \frac{x}{15}$

A) 45 B) 5 C) 4.5 D) 4.5 E) 15

22. Solve for x.
 $\frac{4}{5} = \frac{10}{x}$

A) 12.5 B) 80 C) 0.08 D) 8 E) 2

23. 15% as fraction and decimal is equal to:

- A) $\frac{3}{20}$ and 0.15 B) $\frac{3}{25}$ and 0.15 C) $\frac{15}{100}$ and 1.5
D) $\frac{15}{100}$ and 0.15 E) $\frac{3}{20}$ and 1.5

24. Which is a better deal? 300 g of popcorn for \$2.00 or 200 g of popcorn for \$1.60:
- A) 300 g bag B) same cost C) 200 g bag
25. Emily earns \$35 in 5 hours. Jack earns \$60 in 10 hours. Who earns more money, and by how much per hour?
- A) Jack by \$1 per hour B) Emily by \$5 per hour C) Emily by \$1 per hour
B) D) Jack by \$ per hour E) They earn the same
26. 0.01% as a decimal is:
- A) 1 B) 0.001 C) 0.1 D) 0.01 E) 0.0001
27. What is 15% of 220?
- B) 44 B) 33 C) 15 D) 22 E) 330
28. The average temperature over three days in Aurora last winter was -10°C . If the temperatures on the first two days were -15°C and 5°C , what was the temperature on the third day?

29. Calculate the perimeter of a square that has an area of 225cm^2 .

30. Evaluate for $s = -1$ and $t = 16$

$$\frac{-4s^2 + 2st - s^3 + 3\sqrt{t}}{\left(\frac{s}{t}\right)^3}$$