

M/J Foundational Skills in Mathematics Grade 7, 2023-2024 Final Study Guide

1. Evaluate: $(-5)^{-10} \times (-5)^{15}$

2. Turn into a fraction in lowest terms: 0.46

3. Calculate: 13×91

4. Turn into a decimal: $13/100$

5. Turn into an improper fraction: $5\frac{2}{3}$

6. Turn into a mixed number: $14/5$

7. Calculate: $(\frac{2}{5} + |-5|)^2/27$

8. Calculate: $|(-\frac{2}{5})^2|+3$

9. Solve for b: $30b - 20 = -50$

10. Turn into a percentage: $\frac{3}{2}$

11. Solve for x : $\frac{18}{100} = \frac{x}{50}$

x	2	3	8	10
y	8	12	32	40

12. Find the ratio y/x

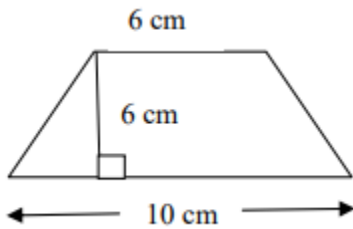
13. $|6 - 4| - |3 - 8| = ?$

14. Solve for n: $|n - 1| + 1 = 0$

15. If $y = -7$, $|y - 4| = ?$

x	4	8	12	16
y	2	4	6	8

16. Choose the equation representing the relationship between x and y.

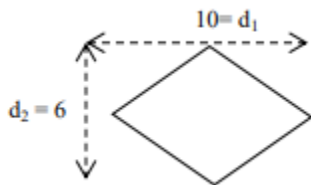


17. Find the area of the trapezoid

18. Convert: 2.5 kilometers to meters (1000 m = 1 km)

19. Divide: $-1\frac{1}{5} \div -1\frac{5}{6}$

20. Sum: $-(6/15) + (10/22)$



21. Find the area of the rhombus

22. Convert: 730 days to decades (1 year = 365 days, 1 decade = 10 years)

23. Solve for a: $a + 13 < -10$

24. Solve for d: $d/5 - 6 = -5$

25. Express 3^3 as a number.

26. Mean, median, mode, and range of:
17, 7, 11, 13, 2, 12, 7.

27. Evaluate: $47 - 4 \times 5 \div 4 + 8$

28. Solve: $29 = k - 9$

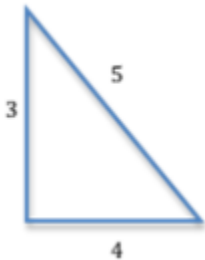
29. Distribute: $3(x - 1)$

30. Evaluate $p - q$ for the given values.

$p = 2, q = 20$

31. Find the quotient: $-36 \div (-4)$

32. Perimeter of the triangle below?

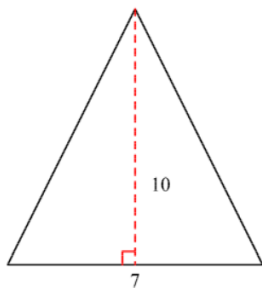


33. What is 25% of 60?

34. Solve for s: $s + 12 \leq 100$

35. Evaluate: $p - 14$ for $p = 38$

36. Find the area of the triangle below:



37. Find the median: 35, 20, 30, 25, 20

38. Solve: $200 = 10n$