

The Departmental EXAM is probably going to look something like the following which is one of their old exams with different numbers:

Compute if possible or write “undefined.” Simplify as much as possible.

1. $(-5)^2$

2. $\frac{-35}{3+4}$

3. -8^2

4. $3 \cdot (5+2)^2 - 5 \cdot (7-4)^2$

5. $25 - (-7)^2$

6. $\left(\frac{2}{12} + \frac{3}{12}\right) \cdot \frac{6}{17}$

7. $-15 + 7 - 2 - (-4)$

8. $(4.2)^2$

9. $7.2(7 - 6.4)$

10. $\frac{1}{4} + \frac{3}{16}$

11. $\frac{1}{8} + \frac{3}{10}$

12. $\frac{5}{33} + \frac{7}{33}$

13. $\frac{13}{9} - \frac{7}{9}$

14. $7.9867 - 3.6544$

15.

16. $\frac{\frac{13}{4}}{-\frac{3}{16}}$

17. $31,098 + 22,099$

18. $7 - 23$

19. $\frac{1}{6} - \left(-\frac{1}{3}\right)$

20. $5.5 - 11.11$

21. $5411 - 2778$

22. $-1.34 + 67.8$

23. $13\frac{3}{14} - 7\frac{5}{7}$

24. $\frac{-3.6}{-0.04}$

25. $-\frac{3}{4} \div \left(-\frac{2}{3}\right)$

26. $\frac{-3}{7} + \frac{13}{21}$

27. $\frac{7}{12} \div \left(\frac{4}{3} + \frac{5}{6}\right)$

28. $\left(\frac{4}{7}\right)^2 \times \frac{1}{3}$

29. $-10 - 14$

30. $(15)(142)$

31. $-6 \cdot 10$

32. $-0.4 \cdot 7.48$

33. $-8 \cdot (-15)$

34. $\left(-\frac{5}{8}\right) \cdot \left(\frac{3}{4}\right)$

35. $3\frac{3}{8} + 4\frac{1}{9}$

36. $-9 + 3$

37. $\frac{-100}{5}$

38. $\frac{3}{7} \div \left(-\frac{9}{4}\right)$

39. $\frac{5}{0}$

40. $\frac{56}{7}$

41. $72 \div \frac{6}{5}$

42. $5\frac{7}{8} \div 1\frac{3}{4}$

43. $\left(\frac{4}{7}\right)^3$

44. $40 \cdot \frac{3}{8}$

45. $8.087 - (-0.82)$

46. $-5 - (-22)$

47. $-3 - 5^2 - (-7)$

48. $\frac{0}{-13}$

Compute as directed

49. What is 30% of 400?

Write in exponential notation

50. $7 \cdot 7 \cdot 7 \cdot 7$