

NTID 1 ACT Review

Date _____ Period _____

Solve each equation.

1) $|-6r - 9| + 3 = 36$

3) $-4 - |-9n + 1| = -86$

5) $\frac{|3 + 5n|}{8} = 5$

2) $10|-3 + 5n| = 120$

4) $\frac{|4n - 5|}{4} = -2$

Solve each equation for the indicated variable.

6) $ma = n + p$, for a

7) $kx = \frac{w}{v}$, for x

8) $z = xmy$, for x

Solve each equation.

9) $-88 = -2(2 - 6x)$

10) $-8(1 - 4b) = -264$

Solve each proportion.

11) $\frac{2}{3} = \frac{n - 10}{n + 1}$

12) $-\frac{5}{p - 8} = \frac{7}{p + 9}$

13) $\frac{b - 11}{6} = \frac{b + 2}{2}$

14) $-\frac{3}{5} = \frac{p - 9}{p - 7}$

15) $\frac{x - 7}{x + 5} = -\frac{4}{7}$

Simplify. Your answer should contain only positive exponents.

16) $2xy^4 \cdot y^4$

17) $v^{-3} \cdot 4u^0v^3$

18) $x^2y^{-4} \cdot x^4y^4$

19) $(x^0y^{-3})^4 \cdot 2x^3y^2$

20) $-u^{-3}v^2 \cdot (-u^0v^3)^3$

21) $-xy^{-5} \cdot (-y^2)^{-2}$

22) $\left(\frac{v^2}{-2u^4 \cdot vu^2}\right)^3$

23) $\frac{(a^4b^2)^3 \cdot (2a^{-1}b^2)^4}{-2ba^0 \cdot -ab^2}$

24) $\frac{(2x^{-1}y^3)^0}{x^0y^4 \cdot x^3y^{-2}}$

Solve each problem.

25) What is 109% of 20?

26) 92% of what is 94.1?

27) What is 156% of 10?

28) 41% of 64 is what?

29) 33% of what is 140.7?

30) 130 is 2% of what?

31) 57 is 59% of what?

32) What percent of 60 is 101.4?

33) What is 169% of 88?

34) What is 47% of 196?

35) What percent of 149.6 is 169?

36) What percent of 403 is 439?

37) What percent of 28 is 190?

38) 8 is what percent of 180.5?

39) 91% of what is 208?

40) 270% of what is 48?