



ACT COMPASS Preparation Worksheet

Pre-algebra: Basic Operations (Decimals)

1. $164 \times 4.73 = 775.72$ 5. $9.37 \times 318 = 2979.66$ 9. $173 \times 6.45 = 1115.85$

2. $655 \times 1.53 = 1002.15$ 6. $239 \times 9.91 = 2368.49$ 10. $138 \times 8.13 = 1121.94$

3. $360 \times 1.55 = 558$ 7. $7.28 \times 157 = 1142.96$ 11. $410 \times 4.16 = 1705.6$

4. $62.2 \times 55.1 = 3427.22$ 8. $73.4 \times 80.8 = 5930.72$ 12. $78.4 \times 53.3 = 4178.72$

13. Sandy travels 876.29 miles in a car that gets 19.86 miles to the gallon. How many gallons of gas did she need for this trip? **44.12 gallons**

14. The price of gas was \$2.72 per gallon last week. Now gas costs \$3.06 per gallon. If you had to purchase 8 gallons of gas, how much money could you have saved if you made this purchase last week? **\$2.72**

15. $7.7358 + 6.5395 = 14.2753$

22. $9.7411 + 1.2664 = 11.0075$

16. $9.3781 + 5.2847 = 14.6628$

23. $7.8707 + 2.0478 = 9.9185$

17. $3.9 \times 0.5 + 4\frac{5}{6} \div 3\frac{3}{7} = 3.36$

24. $5.2 + 2.1 \div (4.5 - 4\frac{1}{7}) = 11.08$

18. $(\frac{5}{3} \times 4\frac{5}{6}) \div 1.75 + \frac{5}{3} = 6.27$

25. $(0.75 \times 1\frac{4}{9}) \div (4\frac{1}{6} + 1.75) = .183$

19. $(9 + \frac{1}{6}) \div (1.7 + 2\frac{3}{4}) = 2.06$

26. $(\frac{3}{2})^2 - 1 + 6 = 7.25$

20. $0.8 \div (1.5 + \frac{2}{3})^2 = 0.1704$

27. $\frac{2}{9} (10\frac{1}{6} - 3\frac{3}{7} - 1) = 1.275$

21. $2 \times (3\frac{6}{7} - 2.3) \div 5\frac{2}{9} = 0.596$

28. $(7 \times \frac{10}{7}) \div 1.2 + 1\frac{3}{4} = 10.08$