The Answers to Second Exam

1. Compute:

   (a) $28 - 4 \times (3 + 2) = 8$

   (b) $\dfrac{3}{8} + \dfrac{5}{12} = \dfrac{19}{24}$

   (c) $7\dfrac{2}{3} - 2\dfrac{5}{6} = 4\dfrac{5}{6}$

   (d) $\dfrac{20}{21} \times \dfrac{7}{10} = \dfrac{2}{3}$

   (e) $\dfrac{2}{3} \div 6 = \dfrac{1}{9}$

2. Arrange from smallest to largest:
$$\frac{5}{8}, \frac{9}{16}, \frac{3}{4}$$
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3. Add: $6.172 + 12.06 = 18.232$

4. Subtract: $74.23 - 47.123 = 27.107$

5. Multiply: $12.003 \times 5.04 = 60.49512$

6. Divide. Give *exact* answer:

   (a) $5.12 \div 6 = 0.85\overline{3}$

   (b) $24.648 \div 7.9 = 3.12$

7. Divide. Round off to the nearest hundredth: $2.34 \div 2.1 \approx 1.11$

8. Convert $\dfrac{74}{25}$ to a mixed number. $2\dfrac{24}{25}$

9. Convert 45% to a fraction. $\dfrac{9}{20}$

10. Convert 45% to a decimal. 0.45

11. Convert 0.125 to a fraction. $\dfrac{1}{8}$

12. Convert 0.125 to a percent. 12.5%

13. Convert $\dfrac{13}{20}$ to a decimal. 0.65

14. Convert $\dfrac{13}{20}$ to a percent. 65%

15. Change to a decimal rounded to the nearest tenth: $\dfrac{2}{7} \approx 0.3$.

16. Find 13% of 237.   30.81

17. Find $\dfrac{2}{5}$ of 37. $\dfrac{74}{5} = 14\dfrac{4}{5} = 14.8$

18. A book costs \$150. How much you will pay if you buy it at 25% off?   \$112.5

19. 65 out of 80 students passed a certain class. What percentage of the students passed? 81.25%

20. In a class of 120 students the passing rate was 70%. How many students passed the class?   84 students