

February 27, 2013
Math Bowl

1. If Fanchon's paycheck was \$195.75 before any deductions, and she earns \$7.25 an hour, how many hours did she work?

$$\begin{array}{r} 27. \\ \hline 7.25 \overline{) 195.75} \\ \underline{1450} \\ 5075 \\ \underline{5075} \\ 0000 \end{array} \quad 27$$

2. the symbol means "is less than." Solve for "?"

$$\frac{? \times 3}{? \times 5} < \frac{?}{7 \times 5} < \frac{4 \times 7}{5 \times 7}$$

$$\frac{21}{35} < \frac{? \times 5}{35} < \frac{28}{35}$$

$$? = 5$$

3. Use <, >, or = to fill in the box

$$\frac{1}{6} \times \frac{1}{2} \times \frac{1}{3} \times 12,000 \quad \boxed{>} \quad \frac{1}{9} \times \frac{1}{4} \times 10,000$$

4. Simplify

$$\begin{aligned} & 4 - \frac{2}{3} + \frac{11}{6} + 3.5 - 1\frac{2}{3} \\ &= \frac{24}{6} - \frac{4}{6} + \frac{11}{6} + \frac{21}{6} - \frac{10}{6} \\ &= \frac{42}{6} \\ &= 7 \end{aligned}$$

5. Evaluate. Write your answer as a simple fraction.

$$\begin{aligned} & 1 + \frac{1}{1 + \frac{1}{1 + 1}} \\ &= 1 + \frac{1}{1 + \frac{1}{2}} \\ &= 1 + \frac{1}{\frac{3}{2}} \\ &= 1 + \frac{2}{3} \\ &= 1\frac{2}{3} = \frac{5}{3} \end{aligned}$$

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1. John plays rugby. If John can run 50 meters in 3.2 seconds, how long will it take him to run down the entire 125-meter rugby field at this given rate?

$$\frac{50 \text{ m}}{125} = \frac{3.2 \text{ sec}}{x}$$

or

$$\begin{array}{r} 50 \text{ m} = 3.2 \\ 50 \quad 3.2 \\ + \frac{25}{125} \quad + \frac{1.6}{8 \text{ sec.}} \end{array}$$

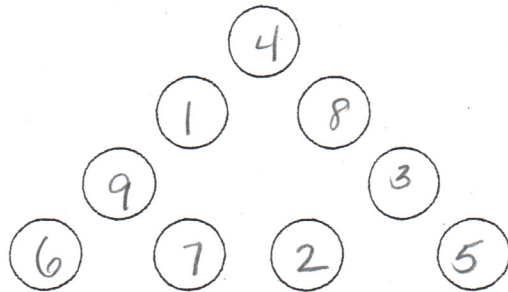
$$125 \times 3.2 \div 50 = 8 \text{ seconds}$$

2. Answer in regular numbers

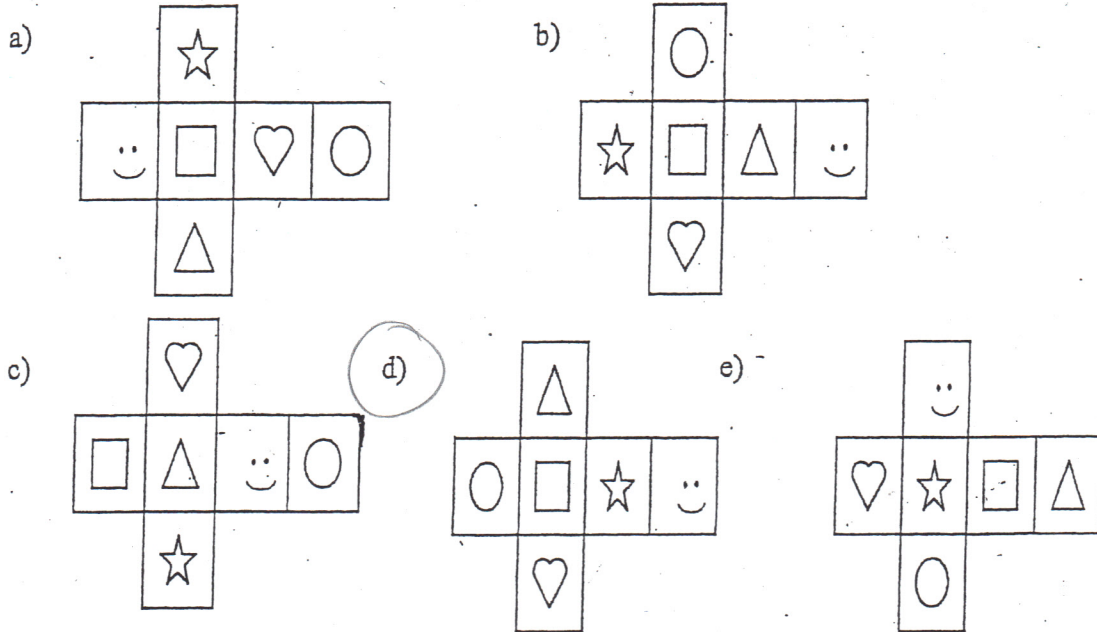
$$\text{XXXIV} - \text{VIII} + \text{IX} - \text{XXII} =$$

$$34 - 8 + 9 - 22 = 13$$

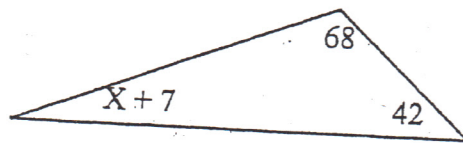
3. Fill in the circles so that the sum along each side is 20



4. You have a six-sided cube. On the opposite side of the square is a smiley face. On the opposite side of the star is a circle. On the opposite side of the triangle is a heart. Which of the following is the correct net of your cube?



5. If you add all the angles of a triangle they equal 180° . Find X.



$$X + 7 + 68 + 42 = 180$$

$$X + 117 = 180$$

$$\begin{array}{r} -117 \quad -117 \\ \hline \end{array}$$

$$X = 63$$

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