



Problem of the Week

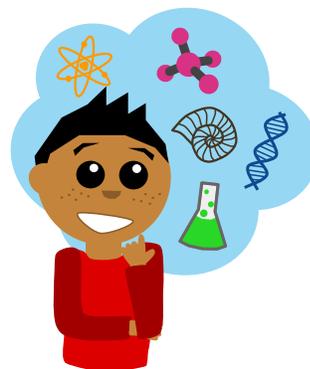
Problem B and Solution

Creating Problems

Problem

Here are some answers...now exercise your math imagination to invent some word problems. Try to use more than one operation in some of your problems.

- Create a problem that yields an answer of \$3.45.
- Create a problem for which the solution is 45 degrees.
- Create a problem for which the solution is 17.3 metres.
- Create a problem that yields an answer of $\frac{2}{5}$.



Solution

Answers will vary widely. Here are some samples for each situation.

- Pat sold 13 cups of lemonade at \$0.25 each. She also got 20 cents in tips. How much did she make? ($13 \times \$0.25 = \3.25 , plus 20 cents gives \$3.45)

- A circular pizza is cut along four diameters to yield 8 pieces of equal size. What is the measure of the angle at the vertex of each piece? ($\frac{1}{8}$ of 360° equals 45°)

Ali folded a square sheet of paper in half along a diagonal. What is the measure of the angle at the corner with the fold? ($\frac{1}{2}$ of 90° equals 45°)

- The fence around a field in the shape of a quadrilateral is 80 metres long. Three of the sides are 20, 15.8 and 26.9 metres in length. What is the length of the fourth side? ($20 + 15.8 + 26.9 + \text{unknown side length} = 80\text{m}$, so the unknown side length is $80 - 62.7 = 17.3\text{ m}$.)

Five students compete in long jump, with jumps of 3.5 m, 3.3 m, 3.1 m, 4.1 m and 3.3 m. What is the total of the distances jumped? (Sum = 17.3 m.)

- Mark has a circular spinner divided into equal segments coloured red, brown, black, green, and orange. What is the probability that Mark will land on a colour which starts with b? (Two of the five segment colours start with b, so the probability is $\frac{2}{5}$.)

