

Answer on Question #82381 – Math – Algebra

Question

Jordan and Ethan sell popcorn for their scout troop. The troop earns \$12 for every \$24 of popcorn sold. How much will the troop earn if the boys sell \$48 worth of popcorn? If they sell \$84 worth of popcorns?

Solution

$$\frac{12}{24} = \frac{x}{48} \rightarrow x = \frac{12 \cdot 48}{24} = 24.$$

If the boys sell \$48 of popcorn, troops will earn \$24.

$$\frac{12}{24} = \frac{x}{84} \rightarrow x = \frac{12 \cdot 84}{24} = 42.$$

If the boys sell \$84 worth of popcorn, troops will earn \$42.

Answer: \$24; \$42.