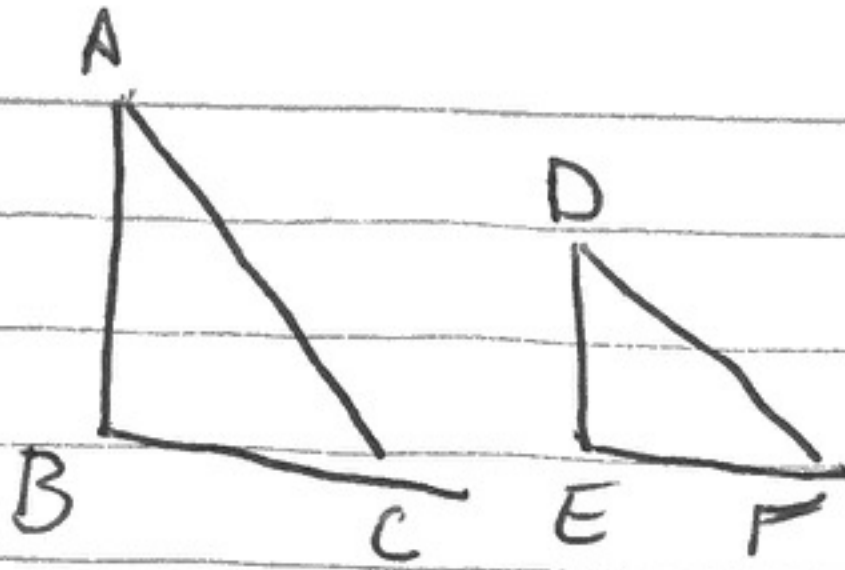


Pg 134 6, 8, 10, 12, 14, 18, 19-21, 23
28



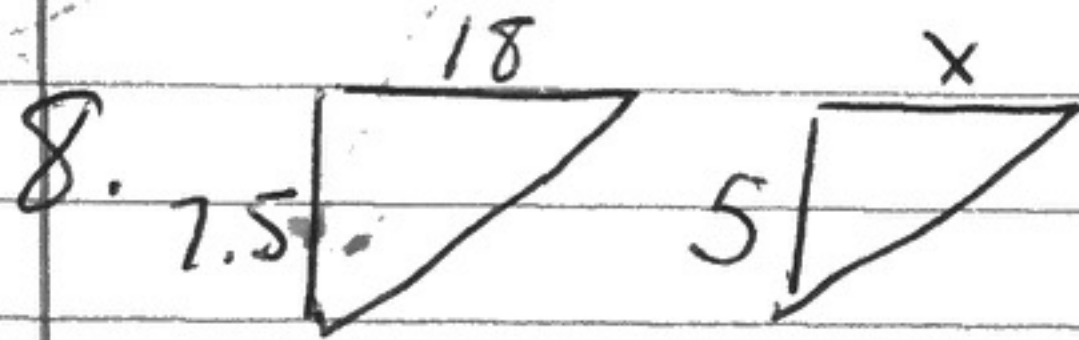
$$\triangle ABC \sim \triangle DEF$$

$$\angle A \cong \angle D$$

$$\angle B \cong \angle E$$

$$\angle C \cong \angle F$$

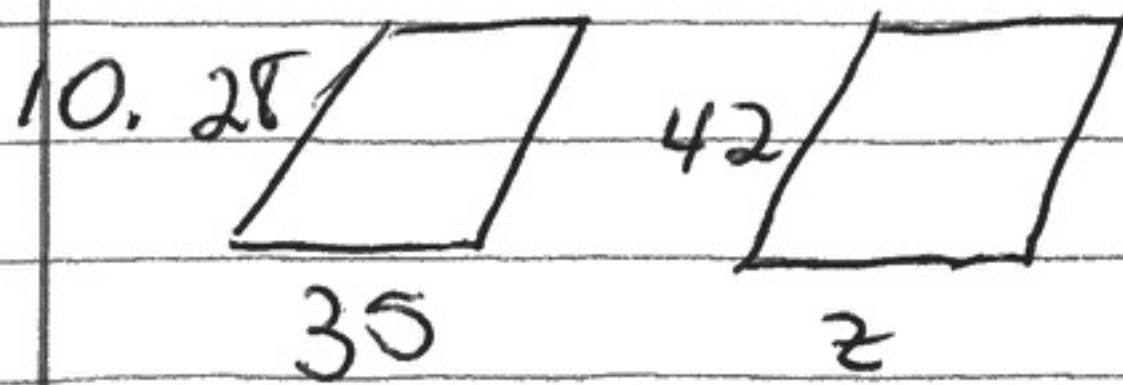
$$\frac{AB}{DE} = \frac{AC}{DF} = \frac{BC}{EF}$$



$$\frac{7.5}{5} = \frac{18}{x}$$

$$\frac{7.5x}{7.5} = \frac{90}{7.5}$$

$$x = 12$$

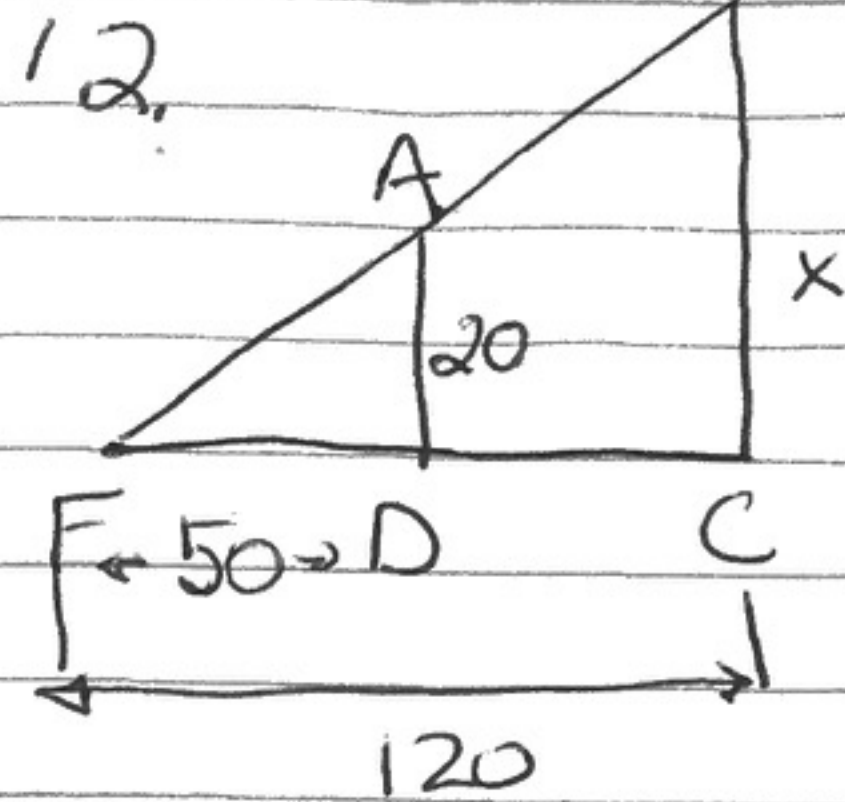


$$\frac{28}{42} = \frac{35}{z}$$

$$28z = 42 \cdot 35$$

$$\frac{28z}{28} = \frac{1470}{28}$$

$$x = 52.5$$



$$\frac{50}{20} = \frac{120}{x}$$

$$50x = 20 \times 120$$

$$\frac{50x}{50} = \frac{2400}{50}$$

$$x = 48 \text{ yds}$$

14. 1cm : 15km

2cm

$$\frac{1 \text{ cm}}{15 \text{ km}} = \frac{2 \text{ cm}}{x}$$

$$x = 15 \times 2$$

$$x = 3 \text{ km}$$

18.

ABBOTTSVILLE

BROKEN
BRANCH

175

$$1 \text{ mi} = \frac{175 \text{ mi}}{2.5 \text{ in}}$$

$$x = \frac{175x}{2.5}$$

$$\frac{2.5 \times 1}{2.5} = \frac{175x}{2.5}$$

$$70 = x$$

19. each square equals 12 in = 1 ft

$$\text{Sunk } 6.5 \times 12 \text{ in} = 78 \text{ in}$$

$$2.5 \times 12 \text{ in} = 30 \text{ in}$$

$$78 \text{ in} \times 30 \text{ in}$$

$$78 \text{ in} \mid \frac{1 \text{ ft}}{12 \text{ in}} = 6.5 \text{ ft}$$

$$30 \text{ in} \mid \frac{1 \text{ ft}}{12 \text{ in}} = 2.5 \text{ ft}$$

$$\therefore 6.5 \text{ ft} \times 2.5 \text{ ft}$$

20 total length & width

20 square long
10 square wide

$$1 \text{ square} = 12 \text{ in}$$

$$20 \times 12 = 240 \text{ inches long}$$

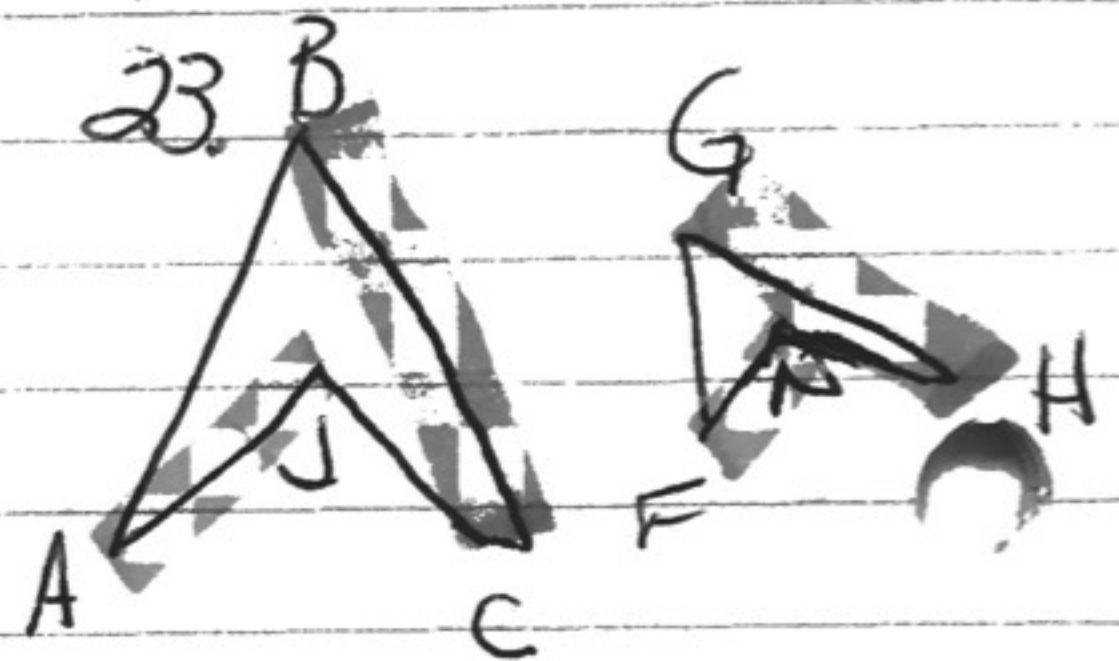
$$10 \times 12 = 120 \text{ inches wide}$$

$$240 \text{ inches} \mid \frac{1 \text{ ft}}{12 \text{ in}} = 20 \text{ ft}$$

$$120 \text{ inches} \mid \frac{1 \text{ ft}}{12 \text{ in}} = 10 \text{ ft}$$

$$\therefore 20 \text{ ft} \times 10 \text{ ft}$$

21. No. the space between the dryer and closet is 3 ft. so it is too small for $3\frac{1}{2}$ ft laundry cart



Student

$$\frac{BC}{CJ} = \frac{GH}{FN} \quad \text{TO FIND FN}$$

A.) The student used CJ instead of AJ.

$$B. \frac{BC}{AJ} = \frac{GH}{FN}$$

OR

$$\frac{BC}{GH} = \frac{AJ}{FN}$$

25. width = 2 in
length = 9 in
height = 4 in
Scale 1:34

$$\text{Volume} = lwh$$

$$2 \cdot 9 \cdot 4$$

$$72$$

apply scale factor

$$\text{width} = 2 \times 34 = 68$$

$$\text{length} = 9 \times 34 = 306$$

$$\text{height} = 4 \times 34 = 136$$

$$\therefore \text{New Volume} = l \cdot w \cdot h$$

$$2829888$$

to find the times
take new volume
and divide by old
volume.

$$\frac{2829888}{72} = 39,304 \text{ times}$$