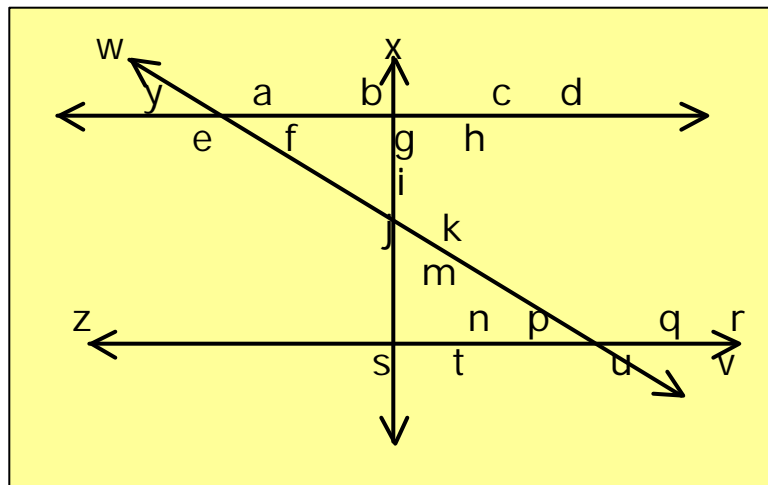


ANSWERS TO FINAL TEST

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Line $y \parallel$ line z
 Line $x \perp$ line y
 $m\angle a = 32^\circ$



- 1) Since $\angle a$ and $\angle q$ are **corresponding** ___ angles, $m\angle q$ is 32°
- 2) Since $\angle a$ and $\angle e$ are **supplementary** ___ angles, $m\angle e$ is 148°
- 3) Since $\angle a$ and $\angle v$ are **alternate exterior** ___ angles, $m\angle v$ is 32°
- 4) Since $\angle v$ and $\angle f$ are **corresponding** ___ angles, $m\angle f$ is 32°
- 5) Since $\angle a$ and $\angle b$ are **supplementary** ___ angles, $m\angle b$ is 148°
- 6) Since $y \perp x$, $m\angle g$ is 90°
- 7) Since $\angle g$ and $\angle c$ are **supplementary** ___ angles, $m\angle c$ is 90°
- 8) Since we know that $m\angle f =$ 32° , and $m\angle g$ is 90° , and we know that the sum of the measures of the angles of a triangle is 180° , we know that $m\angle i =$ 58°
- 9) Since $\angle i$ and $\angle m$ are **vertical** ___ angles, $m\angle m$ is 58°
- 10) Since $\angle g$ and $\angle s$ are **corresponding** ___ angles, $m\angle s$ is 90°
- 11) Since $\angle i$ and $\angle j$ are **supplementary** ___ angles, $m\angle j$ is 122°

- 12) Since $\angle j$ and $\angle k$ are vertical angles, $m\angle k$ is 122^o
- 13) Since $\angle e$ and $\angle r$ are alternate interior angles, $m\angle r$ is 148^o
- 14) Since $\angle b$ and $\angle u$ are alternate exterior angles, $m\angle u$ is 148^o
- 15) Since $\angle a$ and $\angle v$ are alternate exterior angles, $m\angle v$ is 32^o
- 16) 234.3 feet closer 117.2 feet from coener
- 17) Rafters need to be 17.92 long or 17 feet $11\frac{1}{16}$ in.
 area of one side is 824.30 sq ft.
 Area of both sides is 1648.60 sq ft.
 It would take 50 bundles of shingles to cover the roof.
 It would take 55 bundles including ridge & waste.
 It will take $18\frac{1}{3}$ squares.
 It will cost \$511.50 for shingles to roof the house.
- 18) 12.2 lb.
- 19) 512 lb.
- 20) 115.4 lb.
- 21) The mother must exert 10 pounds of force.
 The child must exert 8 pounds of force.
 The child must pull the rope 5 feet to move the box 1 foot.
- 22) 3750 Pounds
- 23) 27,100 pounds of force

