

## HW on Angles

1. Evaluate:

a.  $3 \times 6 + 7$

b.  $150 - 2 \times 10.5$

c.  $83 + 164 \div 4$

d.  $(81 - 1) \div 10$

BODMAS

a)  $3 \times 6 + 7$

$= 18 + 7$

$= 25$

b)  $150 - 2 \times 10.5$

$= 150 - 21$

$= 129$

c)  $83 + 164 \div 4$

$= 83 + 41$

$= 124$

d)  $(81 - 1) \div 10$

$= 80 \div 10$

$= 8$

2. Find:

a. 25% of 640

$$= \frac{1}{4} \text{ of } 640$$

$$= 640 \div 4$$

$$= 160$$

b.  $\frac{3}{4}$  of 120

$$= 120 \div 4 \times 3$$

$$= 30 \times 3$$

$$= 90$$

3. Write the following times in 24 hour format:

a. 9.15 pm

= 2115

b. 11.47 am

= 1147

c. 12 am

= 0000

4. Calculate:

a.  $8 \times (-5)$   $-40$

b.  $-3 \times 7$   $-21$

c.  $-6 \times (-10)$   $60$

d.  $64 \div (-8)$

e.  $(-2) \div (-1)$

f.  $(-33) \div 11$

$-8$

$2$

$-3$

5. Evaluate:

a.  $12.32 \times 20$

b.  $361.2 \div 600$

$$\begin{array}{r} 123.2 \\ \times \quad 2 \\ \hline 246.4 \\ \hline \end{array}$$

$$= 123.2 \times 2$$

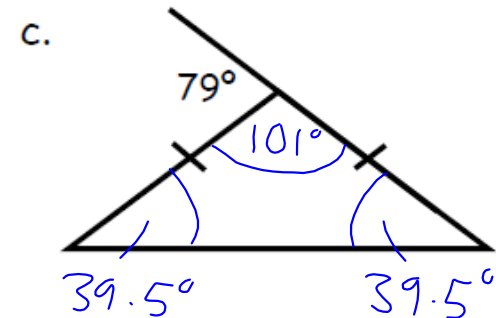
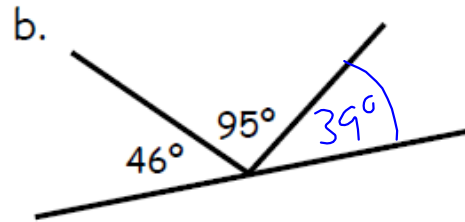
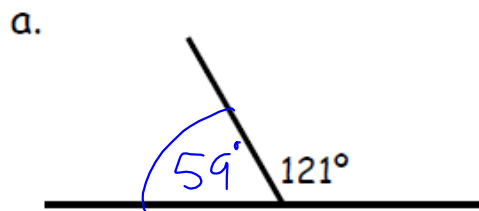
$$= 246.4$$

$$= 60.2 \div 100$$

$$= 0.602$$

$$\begin{array}{r} 60.2 \\ \hline 6 \overline{) 361.2} \end{array}$$

6. Copy each of the following diagrams and fill in the sizes of the missing angles.

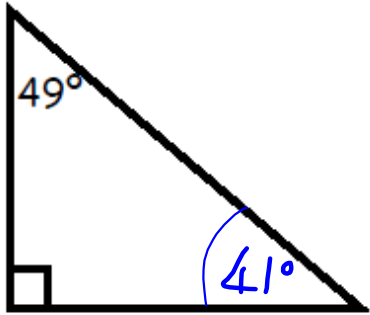


$$\begin{aligned} \text{a) } & 180 - 121 \\ & = 59^\circ \end{aligned}$$

$$\begin{aligned} \text{b) } & 46 + 95 = 141 \\ & 180 - 141 = 39^\circ \end{aligned}$$

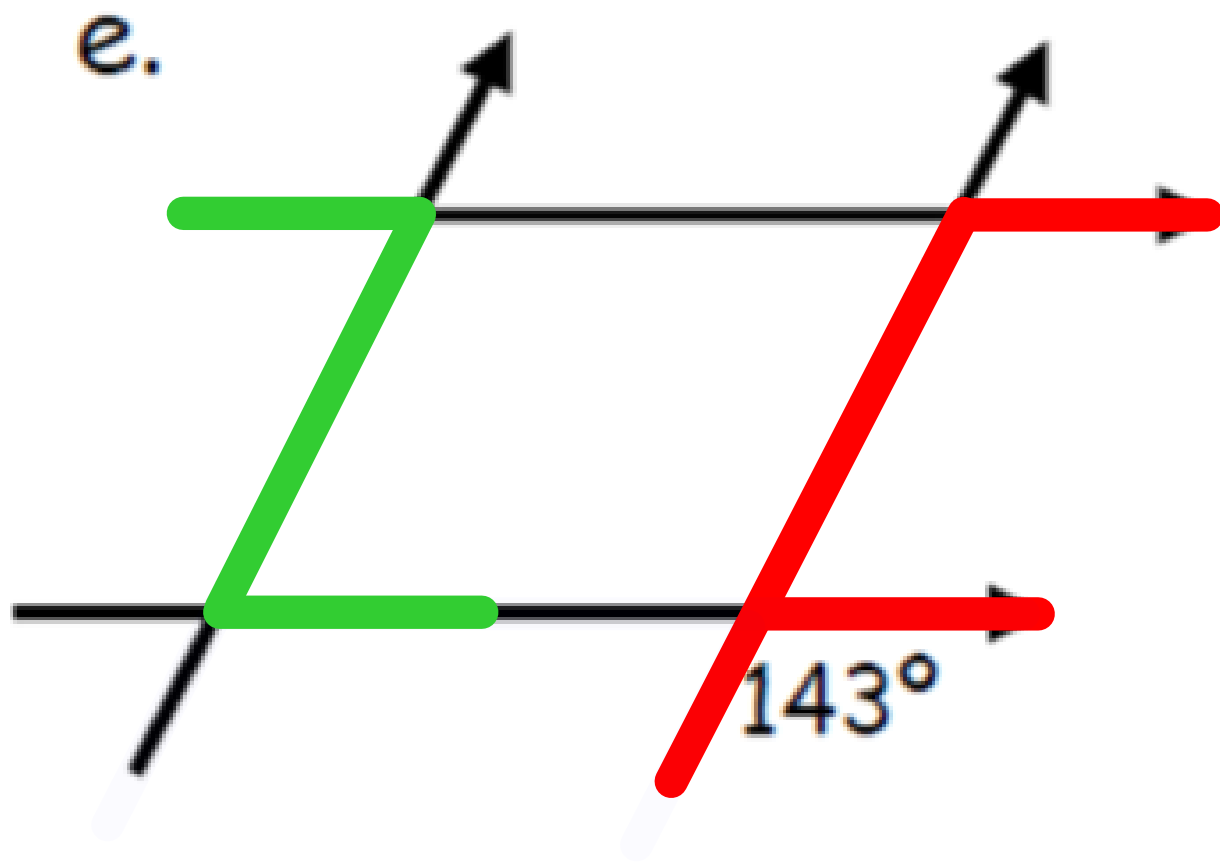
$$\begin{aligned} & 180 - 101 = 79^\circ \\ & 79^\circ \div 2 = 39.5^\circ \end{aligned}$$

d.



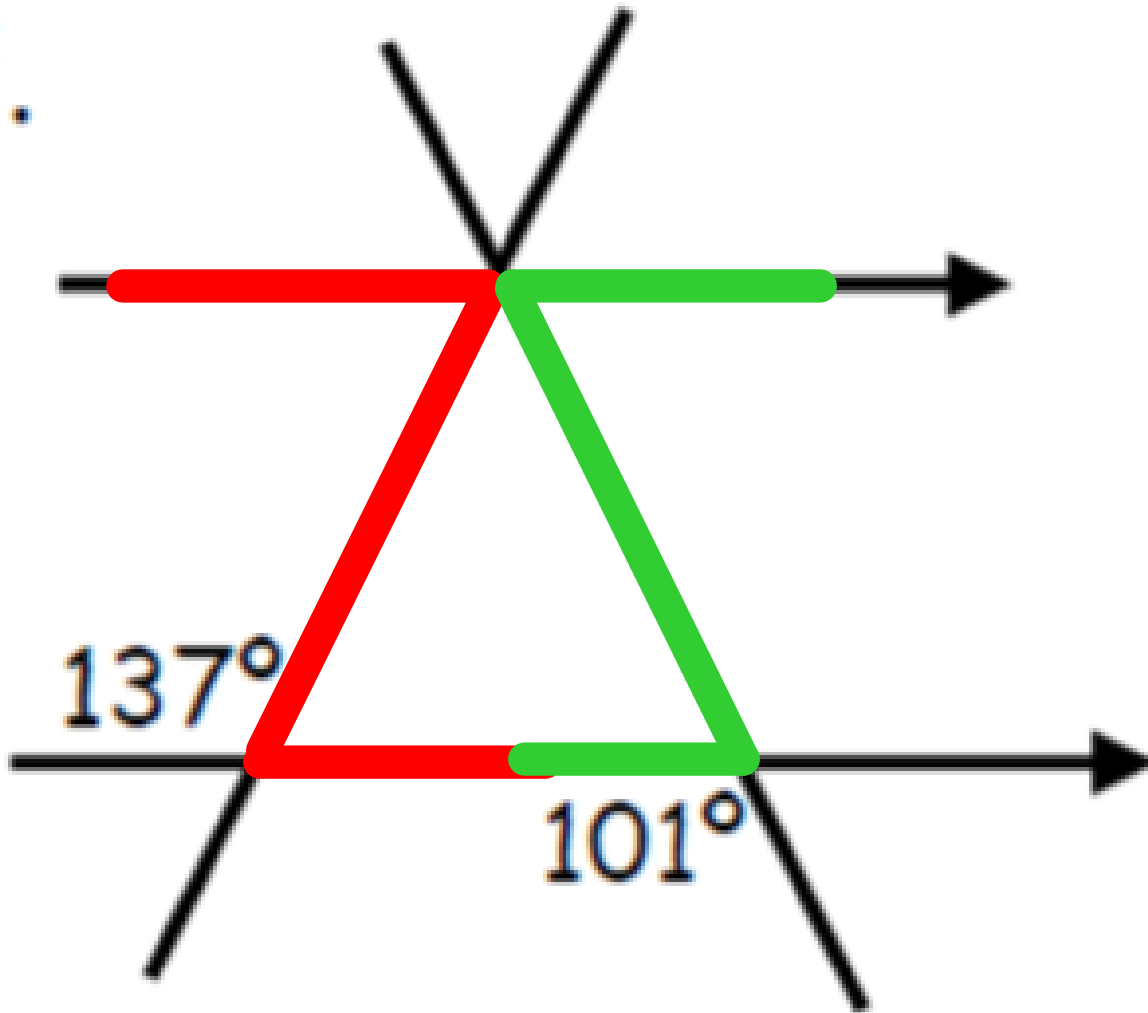
$$90 - 49$$

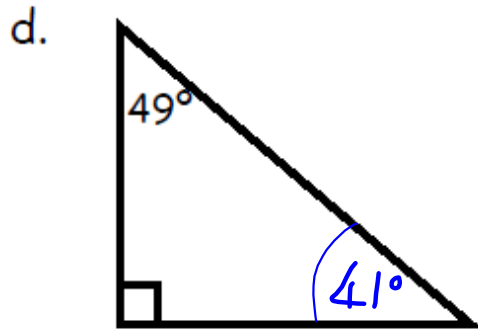
$$= 41^\circ$$





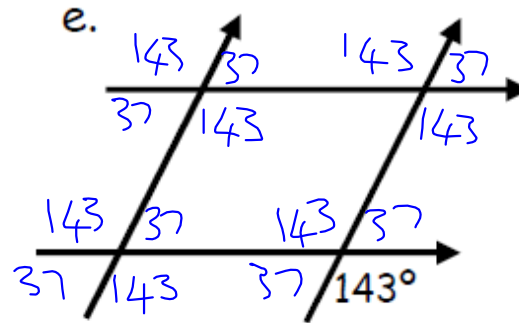
f.





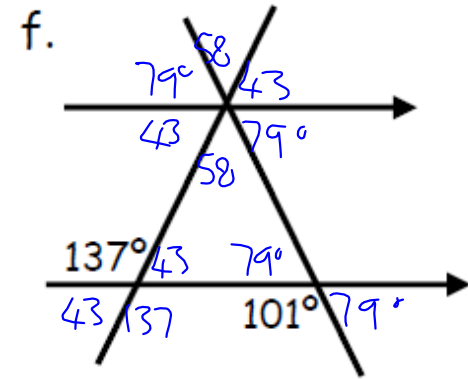
$$90 - 49$$

$$= 41^\circ$$



$$180 - 143$$

$$= 37^\circ$$



$$180 - 137$$

$$= 43^\circ$$

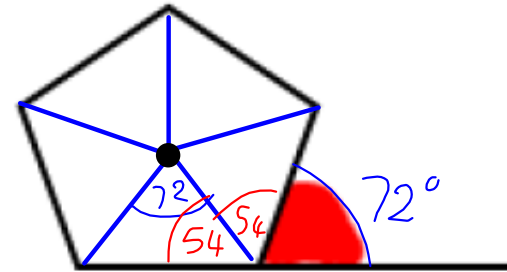
$$180 - 101$$

$$= 79^\circ$$

$$79 + 43 = 122^\circ$$

$$180 - 122 = 58^\circ$$

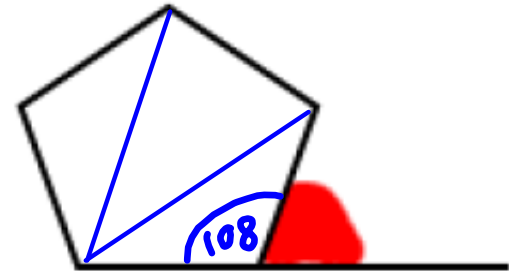
Calculate the size of the exterior (shaded) angle of this regular pentagon.



$$360 \div 5 = 72^\circ$$

$$\begin{aligned} \text{Interior angle} &= 180 - 72 \\ &= 108^\circ \quad \text{or} \quad (108 \div 2 = 54^\circ \\ &\quad 54 + 54 = 108^\circ) \end{aligned}$$

Calculate the size of the exterior (shaded) angle of this regular pentagon.



$$180 \times 3 = 540^\circ$$

$$540 \div 5 = 108^\circ \text{ (interior angle)}$$

$$\text{Exterior} = 180 - 108 = 72^\circ$$

