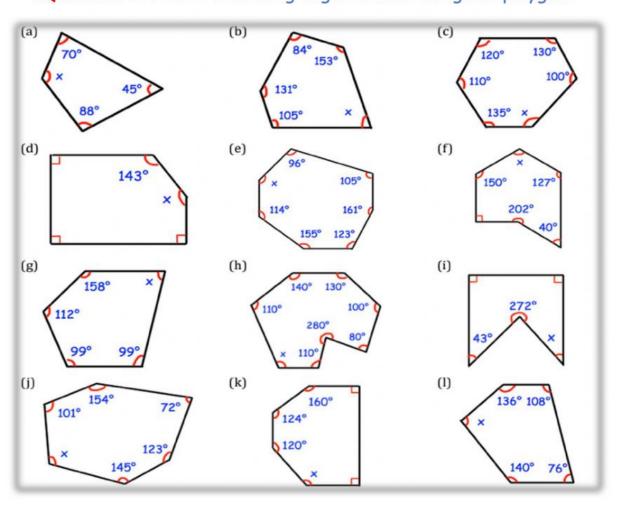WORKOUT   POLYGONS

Notice: <u>Sum of the interior angles = (n-2) × 180⁰</u>

Name: _____ Nos: ___ Grade: 6/___

Question 1: Find the missing angle in each irregular polygon

(a)
70°
x
45°
88°

(b)
84°
153°
131°
105°
x

(c)
120°   130°
110°   100°
135°   x

(d)
143°
x

(e)
96°
x   105°
114°   161°
155°   123°

(f)
x
150°   127°
202°
40°

(g)
158°   x
112°
99°   99°

(h)
140°   130°
110°   100°
280°
80°
x   110°

(i)
272°
43°   x

(j)
154°
101°   72°
123°
x
145°

(k)
160°
124°
120°
x

(l)
136° 108°
x
140°   76°

Answers in degrees (°)

45	80	130	157	136	125
72	111	125	146	67	127

LIVEWORKSHEETS

Question 2: Workout the sum of the interior angles for polygons with

(a) 10 sides   (b) 14 sides   (c) 20 sides   (d) 45 sides

ANSWER IN DEGREE (°)

3240	7740	1440	2160

Question 3: Workout the number of sides of polygons with this sum of interior angles.

(a) 1260°   (b) 2880°   (c) 3960°   (d) 5040°

ANSWER IN SIDES

18	24	30	9

Click on finished, check your answers and send via line ID: gpower11

By T. OJO