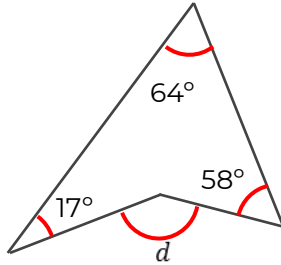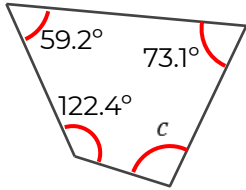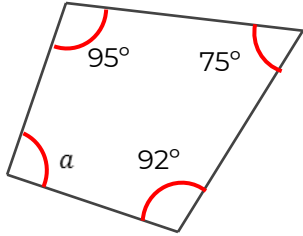# Find missing angles in a quadrilateral

Mr Clasper

Find missing angles in a quadrilateral

1. Calculate the missing angles.

95°   75°

a   92°

52°   73°

122°   b

59.2°   73.1°

122.4°   c

64°

17°   58°

d

2. Find each missing angle

102°   m

67°   58°

78°   167°   151°

n

Find missing angles in a quadrilateral

3. Find the size of angle LKP.

4. The ratio of $a : b : c : d$ is $9 : 4 : 13 : 10$

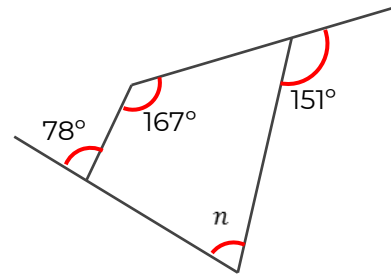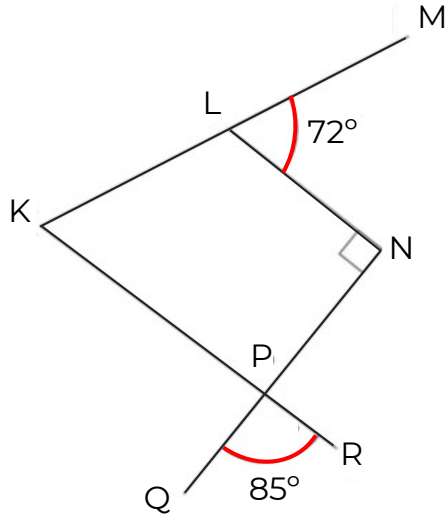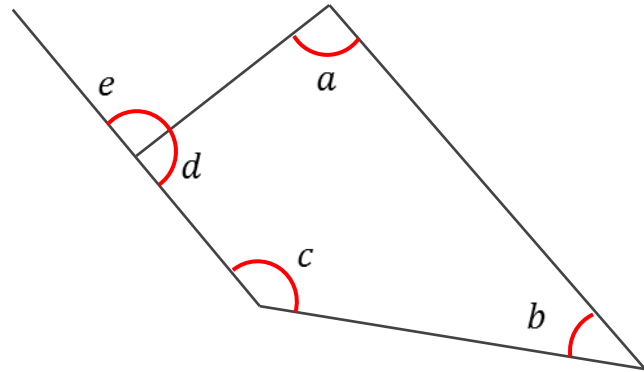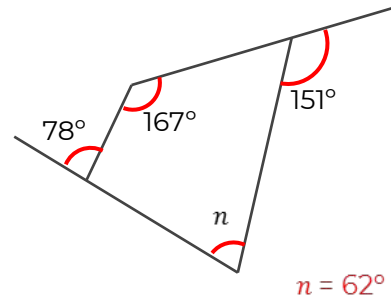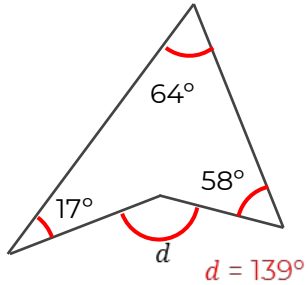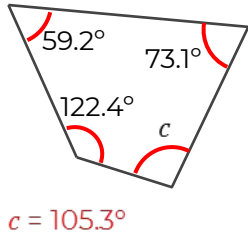Find the ratio of d : e in its simplest form.

Answers

Find missing angles in a quadrilateral

1. Calculate the missing angles.

2. Find each missing angle

95°   75°

a   92°

a = 98°

52°   73°   b = 113°

122°   b

59.2°   73.1°

122.4°   c

c = 105.3°

64°

17°   58°

d   d = 139°

102°   m   m = 87°

67°   58°

78°   167°   151°

n   n = 62°

Find missing angles in a quadrilateral

3. Find the size of angle LKP.

LKP = 77°

M

L

72°

108°

K

N

85°

P

85°

R

Q

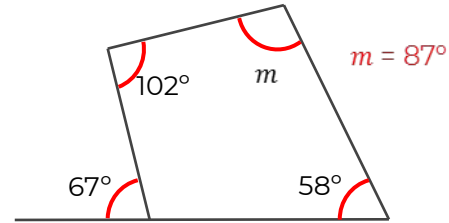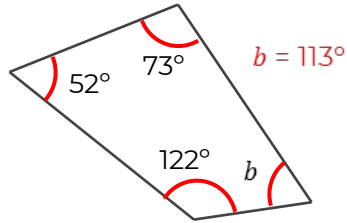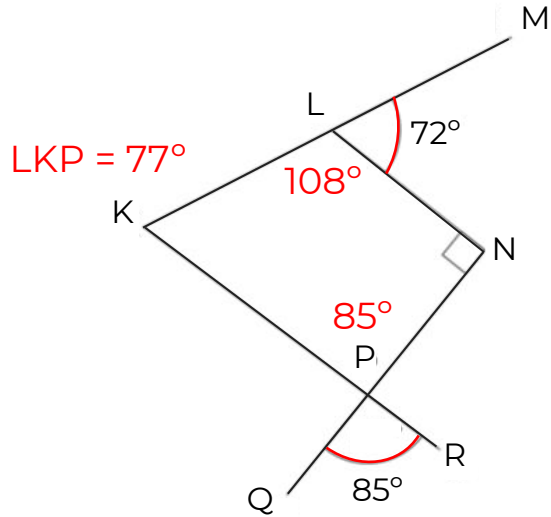4. The ratio of $a : b : c : d$ is $9 : 4 : 13 : 10$. Find the ratio of d : e in its simplest form.

e

d

a

c

b
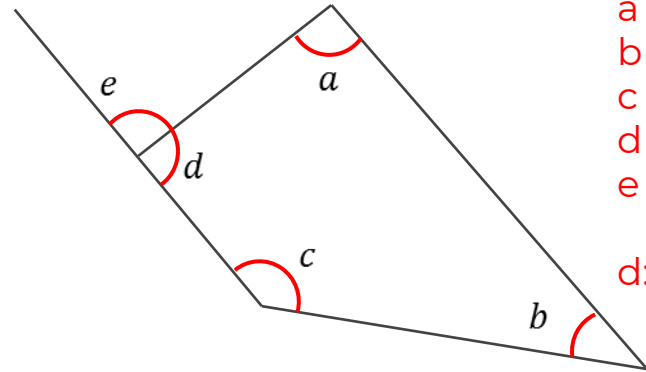
a = 90°
b = 40°
c = 130°
d = 100°
e = 80°

d:e = 5:4