Find missing angles around a point and on a straight line

Maths

Mr Clasper

Find missing angles around a point and on a straight line
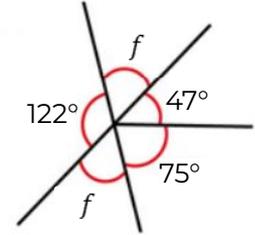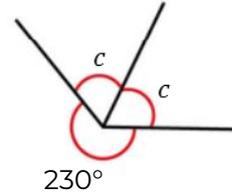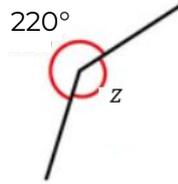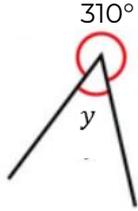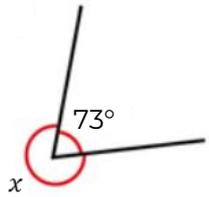
1. Calculate the missing angles.

310°

220°

73°

y

z

x

c

c

230°

f

122°

47°

75°

f

2. Calculate the missing angles.

x

210°

140°

c

100°

110°

61°

m

113°

3. Calculate the missing angles.

e

58°

a

132°

Find missing angles around a point and on a straight line

43° 37°
z

56°
y

4. Calculate the value of x.

51° x 36°

5. Each diagram contains two straight lines. Calculate the missing angles.

70° a

110° t
u v

6. Is ABC a straight line? How do you know?

E
D 97° 45° C
38° B
A
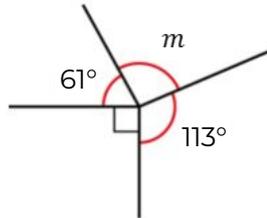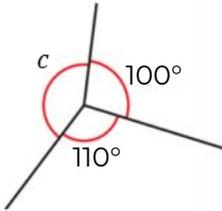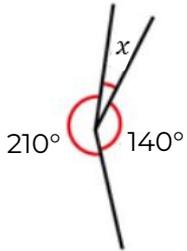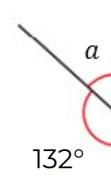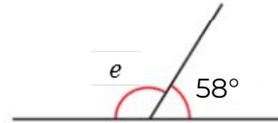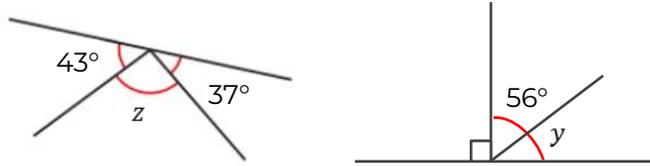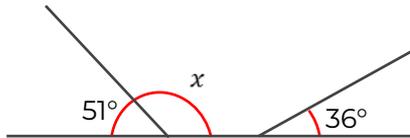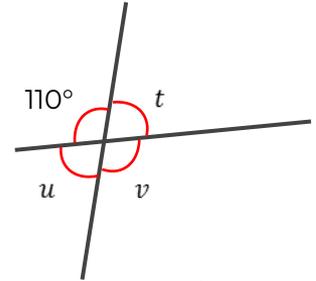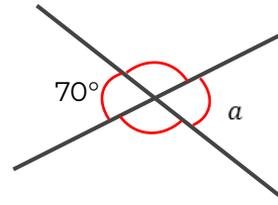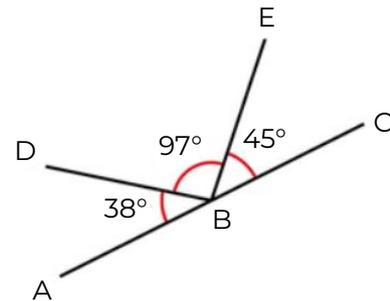
Answers

Find missing angles around a point and on a straight line
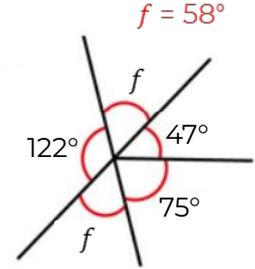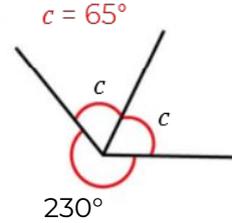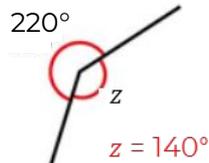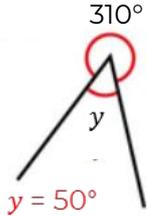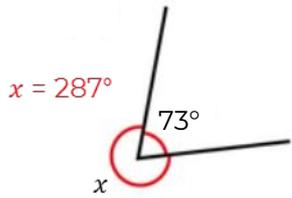
1. Calculate the missing angles.

$x = 287°$

$73°$

x

$310°$

y

$y = 50°$

$220°$

z

$z = 140°$

$c = 65°$

c

c

$230°$

$f = 58°$

f

$122°$

$47°$

$75°$

f

2. Calculate the missing angles.

$x = 10°$

x

$210°$

$140°$

$c = 150°$

c

$100°$

$110°$

m=96º

m

$61°$

$113°$

3. Calculate the missing angles.

$e = 122°$

e

$58°$

$a = 48°$

a

$132°$

Find missing angles around a point and on a straight line

43° 37°

z

$z = 100°$

56°

y $y = 34°$

4. Calculate the value of x.

$x = 129°$

x

51° 36°

5. Each diagram contains two straight lines. Calculate the missing angles.

70°

a $a = 70°$

110° t $t = 70°$

u v $v = 110°$

$u = 70°$

6. Is ABC a straight line? How do you know?

E

D 97° 45° C

38° B

A
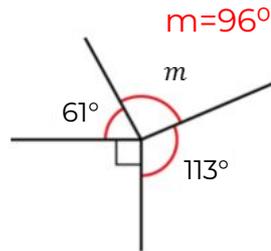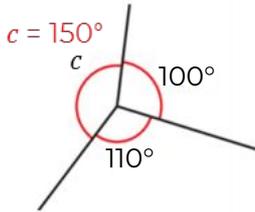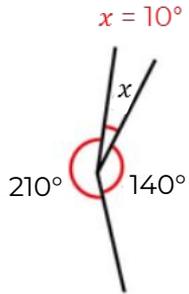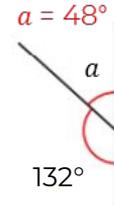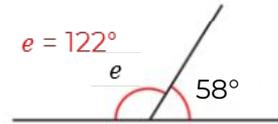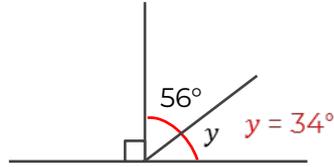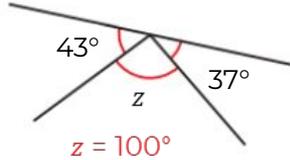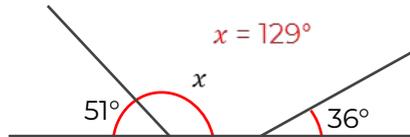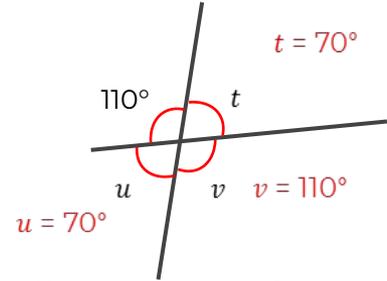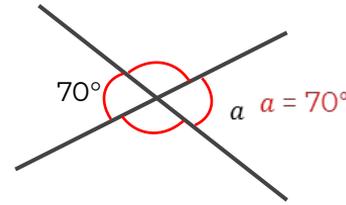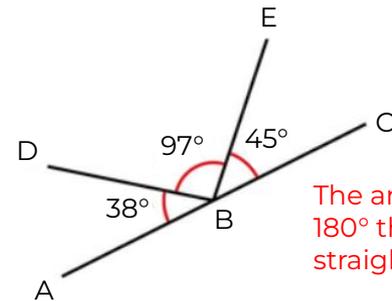
The angles have a sum of 180° therefore ABC is a straight line