Measures of Bisected Lines and Angles

Name:

#1 A line segment is bisected, forming two new line segments. Each new line segment has a measure of 20 mi. What was the original line segment?

| 20 mi | 20 mi |

- ○ 37 mi
- ○ 46 mi
- ○ 40 mi
- ○ 33 mi

Show your work

#2 A line segment is bisected, forming two new line segments. Each new line segment has a measure of 8 m. What was the original line segment?

| 8 m | 8 m |

☐ m

Show your work

#3 A line segment is bisected, forming two new line segments. Each new line segment has a measure of 11 in. What was the original line segment?

| 11 in | 11 in |

- ○ 16 in
- ○ 15 in
- ○ 22 in
- ○ 26 in

Show your work

#4

A line segment is bisected, forming two new line segments. Each new line segment has a measure of 18 km. What was the original line segment?
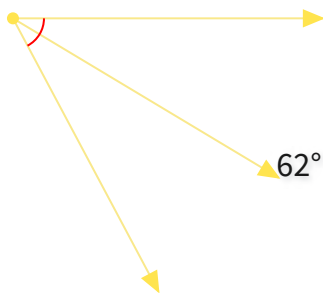
18 km	18 km

◻ km

Show your work

#5

If an angle measuring $62°$ degrees is bisected to form two new angles, what is the measure of each new angle?

62°

◻ ○

Show your work

#6

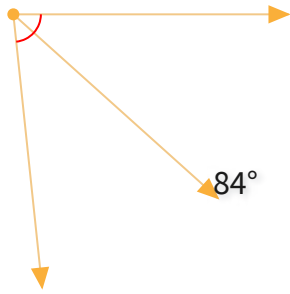IJ is 4 ft long. Point I is at the midpoint HJ. What is the length of HJ?

H   I   4 ft   J
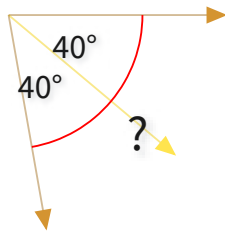
◻ ft

Show your work

Name:

#7

If an angle measuring $84°$ degrees is bisected to form two new angles, what is the measure of each new angle?

84°

Show your work

#8

After bisecting an angle, Michael has two new angles, each with measure of $40°$. What was the measure of the original angle?

40°
40°
?

○ 80°   ○ 97°

○ 59°   ○ 77°

Show your work

#9

Point N is at the midpoint MO, and NO is 17 mm long. What is the length of MN?

M   N   17 mm   O

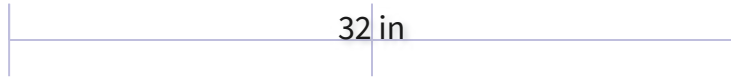○ 12 mm   ○ 17 mm

○ 14 mm   ○ 13 mm

Show your work

#10

A line segment is bisected, forming two new line segments. The original line segment has a measure of 32 in, what is the measure of each new line segment?

|———————— 32 in ————————|

☐ **in**

Show your work

#11

A line segment is bisected, forming two new line segments. Each new line segment has a measure of 10 mm. What was the original line segment?

|—— 10 mm ——|—— 10 mm ——|

☐ **mm**

Show your work

#12

Point M is at the midpoint LN, and MN is 19 km long. What is the length of LM?

L•————————————————M•————19 km————•N

○ 20 km   ○ 25 km

○ 18 km   ○ 19 km

Show your work

Question	Answer
#1	choice 3
#2	16
#3	choice 3
#4	36
#5	31
#6	8
#7	42
#8	choice 1
#9	choice 2
#10	16
#11	20
#12	choice 4

CC.8.111

Math Games