Measures of Bisected Lines and Angles

#1

FG is 10 ft long. Point F is at the midpoint EG. What is the length of EG?

E _____ F ___ 10 ft ___ G

○ 18 ft   ○ 20 ft

○ 21 ft   ○ 19 ft   Show your work

#2

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

#3

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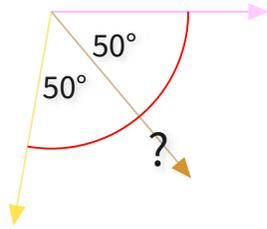
| 18 m | 18 m |

[ ] m   Show your work

Name:

#4

After bisecting an angle, Grace has two new angles, each with measure of 50°. What was the measure of the original angle?

- ○ 100°
- ○ 78°
- ○ 122°
- ○ 81°

Show your work

#5

KL is 5 cm long. Point K is at the midpoint JL. What is the length of JL?

- ○ 7 cm
- ○ 10 cm
- ○ 12 cm
- ○ 9 cm

Show your work

#6

A line segment is bisected, forming two new line segments. The original line segment has a measure of 12 mm, what is the measure of each new line segment?

- ○ 9 mm
- ○ 4 mm
- ○ 5 mm
- ○ 6 mm

Show your work

#7

Point N is at the midpoint MO, and NO is 8 mm long. What is the length of MN?

M ●————————————N————8 mm————● O

- ○ 8 mm
- ○ 11 mm
- ○ 6 mm
- ○ 9 mm

Show your work

#8

A line segment is bisected, forming two new line segments. The original line segment has a measure of 12 in, what is the measure of each new line segment?

|————————————12 in————————————|

- ○ 5 in
- ○ 8 in
- ○ 4 in
- ○ 6 in

Show your work

#9

Point V is at the midpoint UW, and VW is 3 mm long. What is the length of UV?
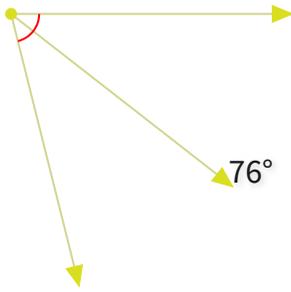
U ●————————————V————3 mm————● W

[ ] mm

Show your work

Name:

#10

If an angle measuring $76°$ degrees is bisected to form two new angles, what is the measure of each new angle?

$76°$

☐ ○

Show your work

#11

Point R is at the midpoint QS, and RS is 1 ft long. What is the length of QR?

Q   R   1 ft   S

☐ ft

Show your work

#12

GH is 7 km long. Point G is at the midpoint FH. What is the length of FH?

F   G   7 km   H

☐ km

Show your work

Question	Answer
#1	choice 2
#2	choice 2
#3	36
#4	choice 1
#5	choice 3
#6	choice 4
#7	choice 1
#8	choice 4
#9	3
#10	38
#11	1
#12	14

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