Triangular Prisms (D)

Name: _____
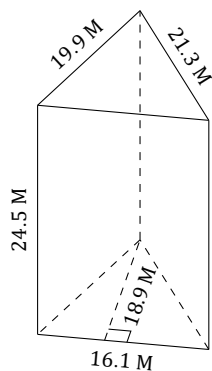
Date: _____

Calculate the volume and surface area of each triangular prism.
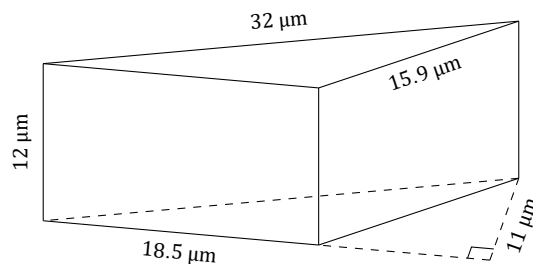
Volume is equal to the Area of the Base × the Prism Length = $0.5 \times b \times h \times l$

Surface Area is equal to the Perimeter of the Base × the Prism Length + Twice the Area of the Base = $(P \times l) + (b \times h)$
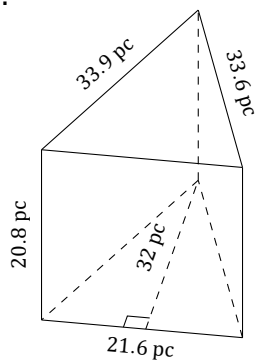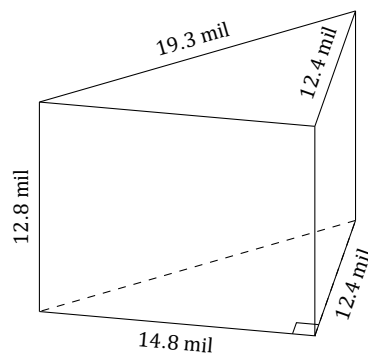
1.

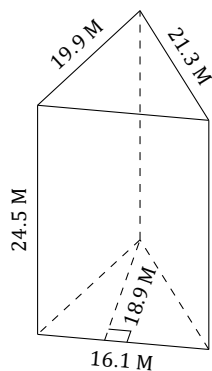2.

3.

4.

Triangular Prisms (D) Answers

Name: _____

Date: _____

Calculate the volume and surface area of each triangular prism.

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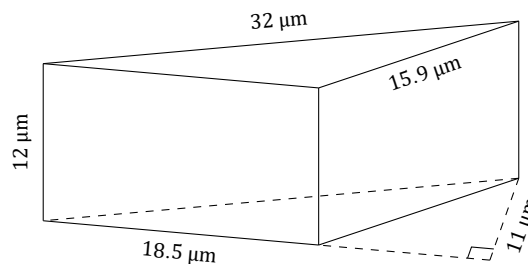
1.

19.9 M   21.3 M
24.5 M
18.9 M
16.1 M

$V = 0.5 \times 16.1 \times 18.9 \times 24.5$

$V = 3727.5525 \text{ M}^3$

$SA = ((16.1 + 21.3 + 19.9) \times 24.5) + (16.1 \times 18.9)$
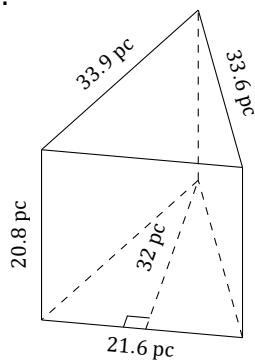
$SA = 1708.14 \text{ M}^2$

2.

32 µm
15.9 µm
12 µm
18.5 µm
11 µm

$V = 0.5 \times 18.5 \times 11 \times 12$

$V = 1221 \text{ µm}^3$

$SA = ((18.5 + 15.9 + 32) \times 12) + (18.5 \times 11)$

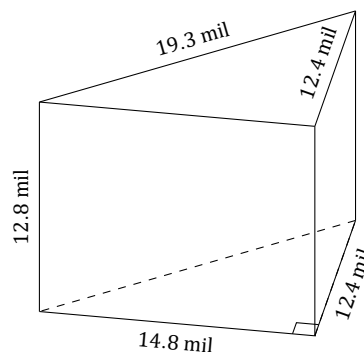$SA = 1000.3 \text{ µm}^2$

3.

33.9 pc   33.6 pc
20.8 pc
32 pc
21.6 pc

$V = 0.5 \times 21.6 \times 32 \times 20.8$

$V = 7188.48 \text{ pc}^3$

$SA = ((21.6 + 33.6 + 33.9) \times 20.8) + (21.6 \times 32)$

$SA = 2544.48 \text{ pc}^2$

4.

19.3 mil   12.4 mil
12.8 mil
12.4 mil
14.8 mil

$V = 0.5 \times 14.8 \times 12.4 \times 12.8$

$V = 1174.528 \text{ mil}^3$

$SA = ((14.8 + 12.4 + 19.3) \times 12.8) + (14.8 \times 12.4)$

$SA = 778.72 \text{ mil}^2$

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