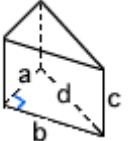
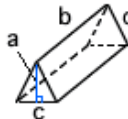
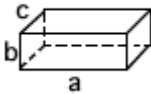
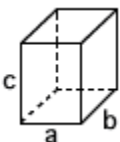
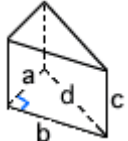




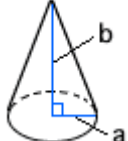
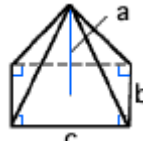
Year 8 Measurement Worksheet



A. Find the surface area of each solid to the nearest tenth. (use $\pi = 3.14$)

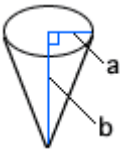
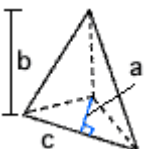
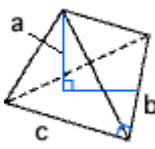
<p>1.</p>  <p> $a = 5 \text{ mm}$ $b = 12 \text{ mm}$ $c = 9.1 \text{ mm}$ $d = 13 \text{ mm}$ </p>	<p>2.</p>  <p> $a = 21 \text{ cm}$ $b = 42 \text{ cm}$ $c = 40 \text{ cm}$ $d = 29 \text{ cm}$ </p>
<p>3.</p>  <p> $a = 35 \text{ cm}$ $b = 15 \text{ cm}$ $c = 21 \text{ cm}$ </p>	<p>4.</p>  <p> $a = 27 \text{ cm}$ $b = 32 \text{ cm}$ $c = 27 \text{ cm}$ </p>
<p>5.</p>  <p> $a = 33 \text{ mm}$ $b = 56 \text{ mm}$ $c = 9.5 \text{ mm}$ $d = 65 \text{ mm}$ </p>	<p>6.</p>  <p> $a = 4.8 \text{ mm}$ $b = 6 \text{ mm}$ </p>

B. Find the volume of each solid to the nearest tenth. (use $\pi = 3.14$) (Cones, Pyramids, and Spheres)

<p>1.</p> 	<p>2.</p> 	<p>3.</p> 
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Year 8 Measurement Worksheet



$a = 2.1 \text{ m}$	$a = 3 \text{ m}$ $b = 5 \text{ m}$	$a = 9 \text{ cm}$ $b = 8 \text{ cm}$ $c = 7 \text{ cm}$
<p>4. </p> $a = 1 \text{ m}$ $b = 4 \text{ m}$	<p>5. </p> $a = 3 \text{ km}$ $b = 6 \text{ km}$ $c = 9 \text{ km}$	<p>6. </p> $a = 3.2 \text{ mm}$ $b = 8.2 \text{ mm}$ $c = 9.8 \text{ mm}$

C. Area and Perimeter

1. What is the area of a triangle with base $\frac{2}{3} \text{ mm}$ and height $3\frac{1}{3} \text{ mm}$?	2. Find the area of the parallelogram whose vertices are $(-3, -1)$, $(-3, -6)$, $(0, -6)$, and $(0, -1)$.
3. Find the area of the rectangle whose vertices are $(-6, 10)$, $(-6, 6)$, $(2, 10)$, and $(2, 6)$	4. What is the length of the base of a triangle with height $1\frac{4}{5} \text{ m}$ and area $5\frac{2}{5} \text{ m}^2$?
5. What is the area of a triangle with base 6 mm and height $2\frac{1}{2} \text{ mm}$?	6. What is the height of a triangle with base $4\frac{1}{4} \text{ m}$ and area $1\frac{5}{12} \text{ m}^2$?
7. Find the area of the rectangle whose vertices are $(-2, 1)$, $(-2, 4)$, $(6, 1)$, and $(6, 4)$	8. What is the area of a triangle with base $8\frac{4}{5} \text{ mm}$ and height $2\frac{1}{2} \text{ mm}$?
9. What is the length of the base of a triangle with height 9 mm and area $11\frac{1}{4} \text{ mm}^2$?	10. What is the area of a triangle with base $9\frac{1}{2} \text{ m}$ and height 10 m ?

D. Find the volume of each solid to the nearest tenth. (use $\pi = 3.14$)

1. rectangular prism: $l = 14 \text{ m}$, $w = 20.6 \text{ m}$, $h = 10 \text{ m}$
 sphere: $r = 21 \text{ m}$
2. cylinder: radius = 2.1 cm , height = 4 cm
3. triangular prism: $B = 36 \text{ m}^2$, $h = 14 \text{ m}$

Year 8 Measurement Worksheet

