

Name _____ Date _____



Unit Review

Algebraic Rules and Properties

Activity 1

Evaluate the expressions using PEMDAS.

1. $3^2 + (5 \cdot 2) + 4$ _____

2. $20 \div 2 - 5$ _____

3. $9 \div 9 \cdot 7$ _____

4. $(10 + 8) \div (4 \div 2)$ _____

Activity 2

Solve the addition and subtraction problems.

1. $18 + -7$ _____

2. $-5 + 20$ _____

3. $-8 + -3$ _____

4. $-9 - -4$ _____

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Activity 3**Write an expression for each word problem.**

1. Gary's dog weighs three times as much as Lani's dog. If Lani's dog weighs h pounds, how much does Gary's dog weigh?

2. Harold's chocolate cake contains 4 times as much flour as it does sugar. If the cake has r amount of sugar, how much flour does it have?

3. There are 6 times as many people who watch basketball games than there are people who watch bowling on TV. If v is the number of people who watch bowling, how many people watch basketball?

Activity 4**Combine like terms and simplify the expressions.**

1. $2a + 6 + 3a - 5$ _____

2. $5 + 3a - 4 - 2a$ _____

3. $-5 + 3a + 7 + 2 + 6a$ _____

4. $6a + 7 + -3 - 4a$ _____

5. $12a - 3a + 6 - 2a$ _____

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Unit Review

Surface Area of Three-Dimensional Shapes

Activity 1

Find the surface area of each shape. Use the list of formulas to help you. You may use a calculator.

Remember that $\pi = 3.14$

Area of a circle = πr^2

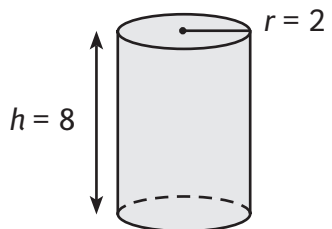
Circumference of a circle = $2\pi r$

Area of a triangle = $\frac{1}{2} \cdot b \cdot h$

Area of a rectangle = $b \cdot h$

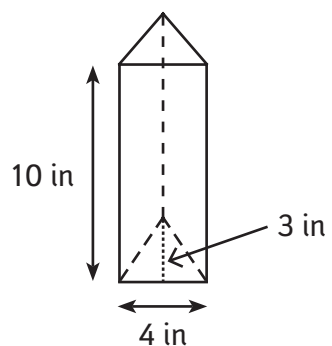
Area of a parallelogram = $b \cdot h$

1.



Surface area _____

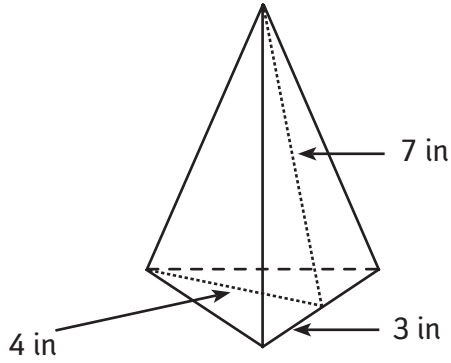
2.



Surface area _____

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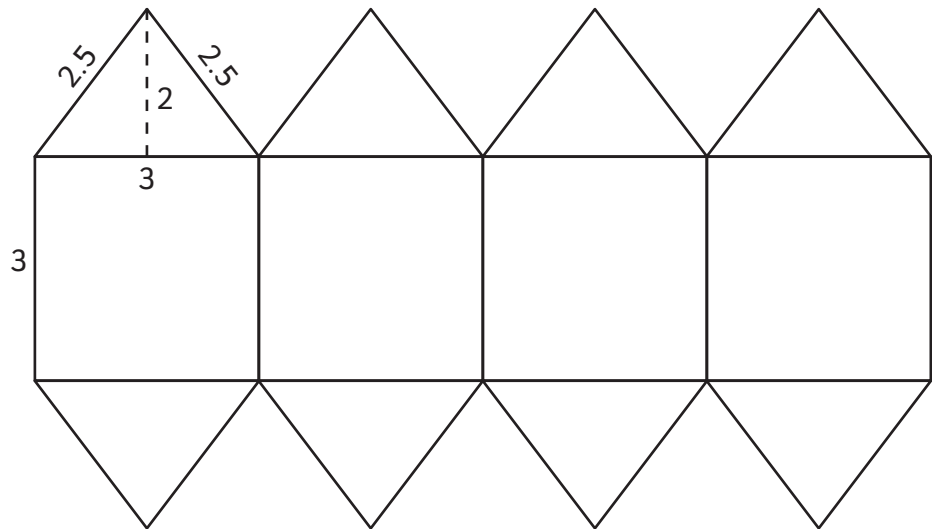
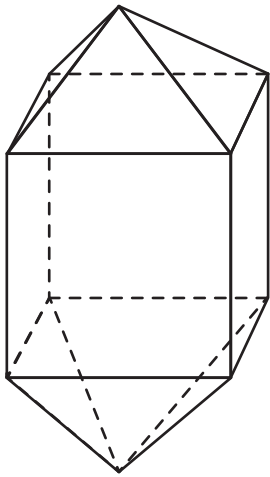
3.



Surface area _____

Activity 2

Find the surface area of the polyhedron.



Surface area _____