Section 3.1 – Area (Solid and Composite Shapes)

Area

- The amount of space it takes to fill a **2-Dimensional shape**
 - What 2-D shapes can we think of?
 - Square and Rectangles
 - \circ Triangle
 - o Circle
 - Parallelograms
 - We have known equations for all of these, let's have a look.



- A few of these equations are intuitive
- We don't need to worry about proving them, all we need to know is how they work
- Like Colour By Numbers we have to SUBSTITUTE the values we have into the equations
- We need to make sure we have enough information to solve the problem

Example:

What is the Area of the following Shapes?



Compound Shapes

- Finding the Area of a Compound Shape is a little bit more tricky
- Compound shapes are shapes that involve the breakdown into shapes we know
- Sometimes we have to break a shape into pieces and then add the area's together
- Sometimes we have to subtract a piece of area from another

Example:









Section 3.1 – Practice Problems

Find the area of each figure.

Find the area of each figure.



Workplace 11

Find the Area of the Shaded Portion of the following figures.



Find the area of each figure. Round the answer to 2 decimal places if necessary.



Section 3.1 – Answer Key

- 1. $113.1ft^2$
- 2. $144yd^2$
- 3. 84*in*²
- 4. $21in^2$
- 5. $50.3ft^2$
- 6. $32yd^2$
- 7. $66ft^2$
- 8. $153.9in^2$
- 9. $40yd^2$
- 10. 35*in*²
- 11. 16*yd*²
- 12. $78.5ft^2$
- 13. $53.9ft^2$
- 14. $71.4yd^2$
- 15. $74.1in^2$
- 16. $174yd^2$
- 17. 92*yd*²
- 18. $113ft^2$