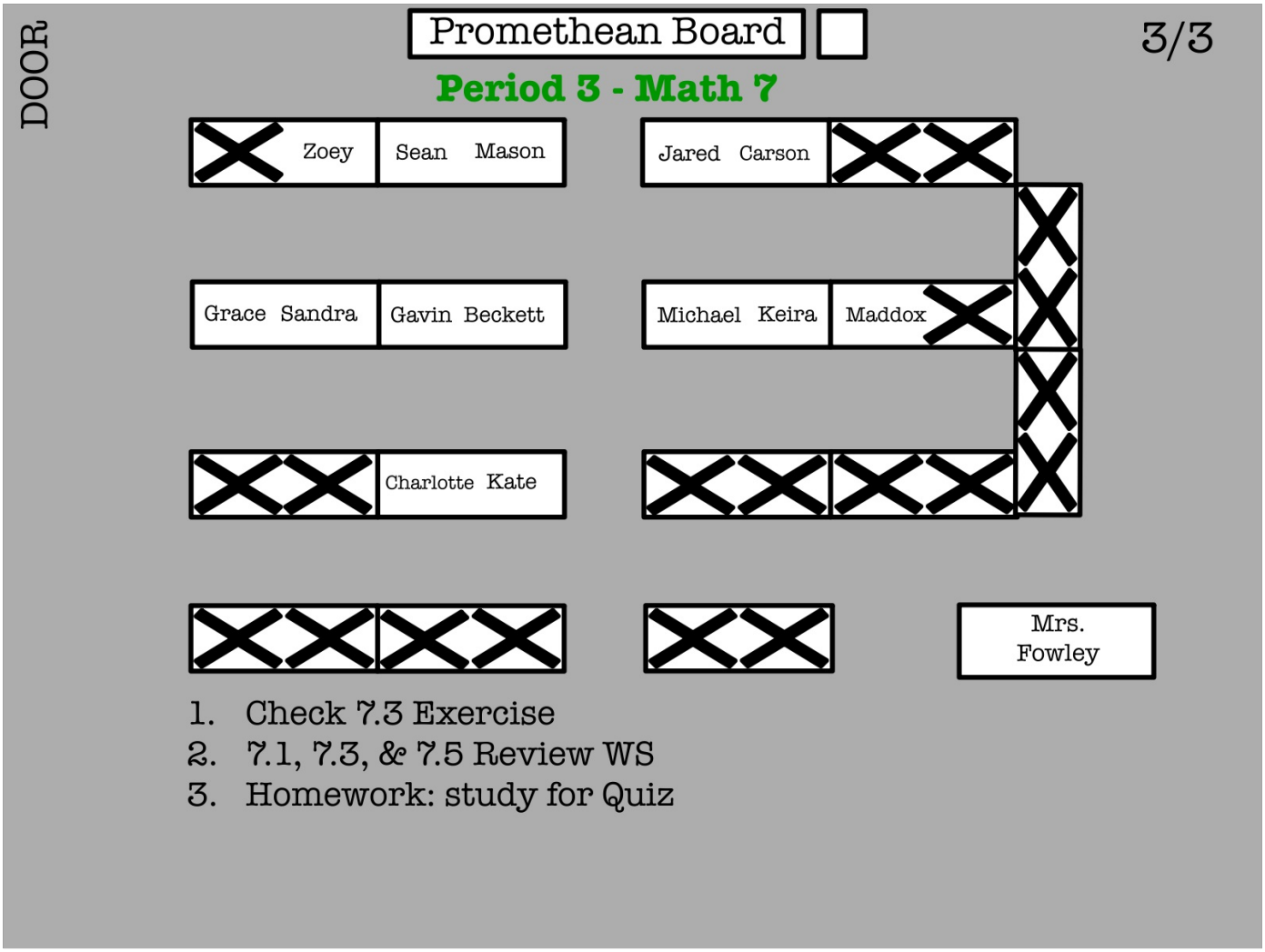
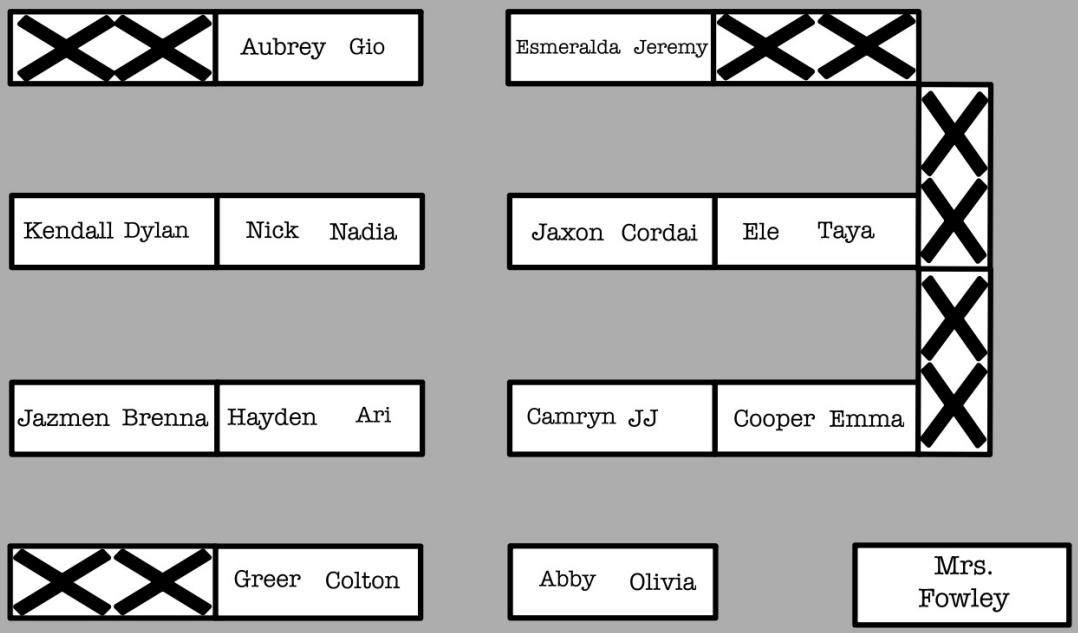

DOOR
Promethean Board
3/3
Period 3 - Math 7
Zoey
Sean
Mason
Jared
Carson
Grace
Sandra
Gavin
Beckett
Michael
Keira
Maddox
Charlotte
Kate
Mrs.
Fowley
1. Check 7.3 Exercise
2. 7.1, 7.3, & 7.5 Review WS
3. Homework: study for Quiz

DOOR

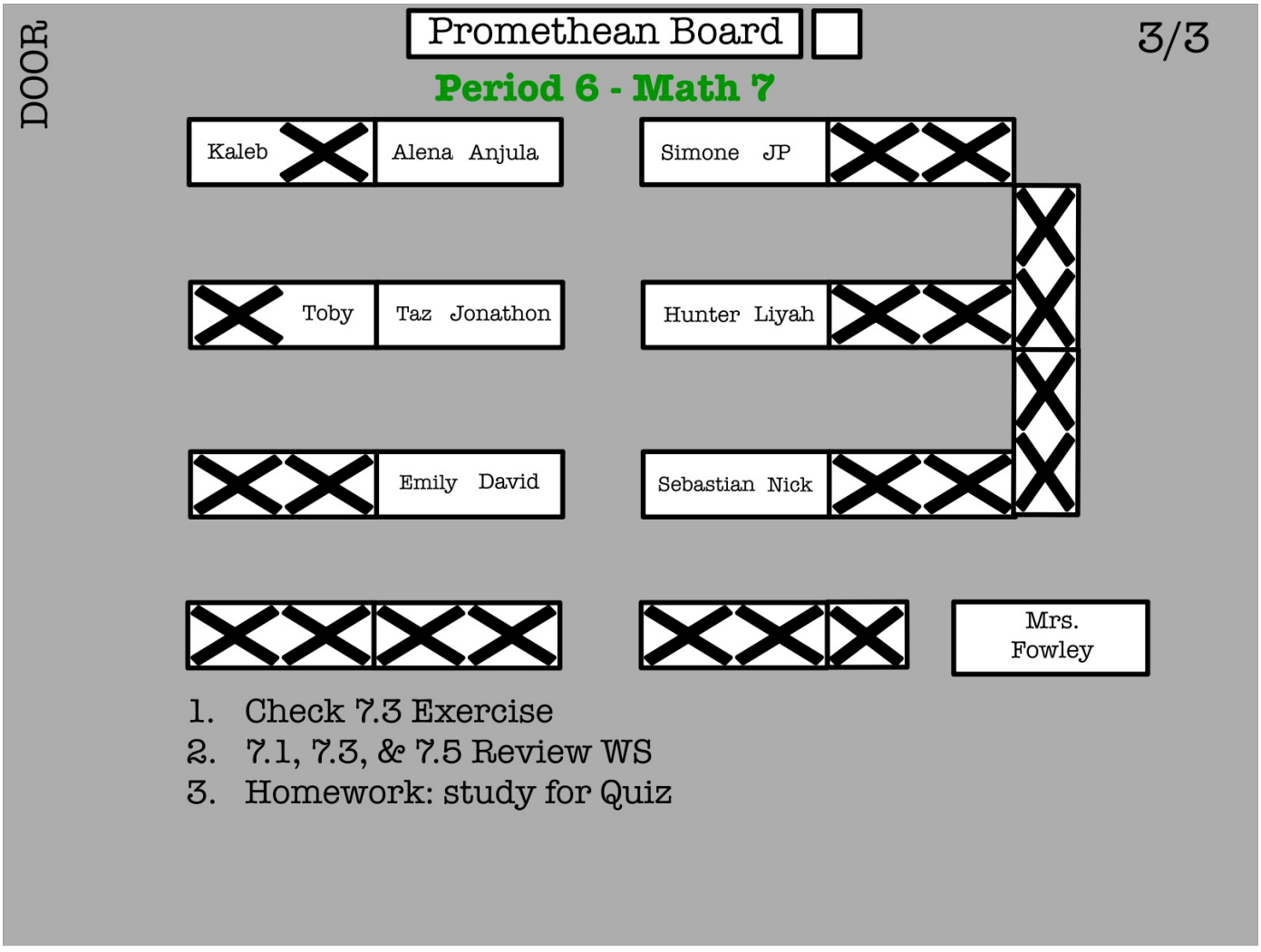
Promethean Board

3/3

Period 5 - Math 7

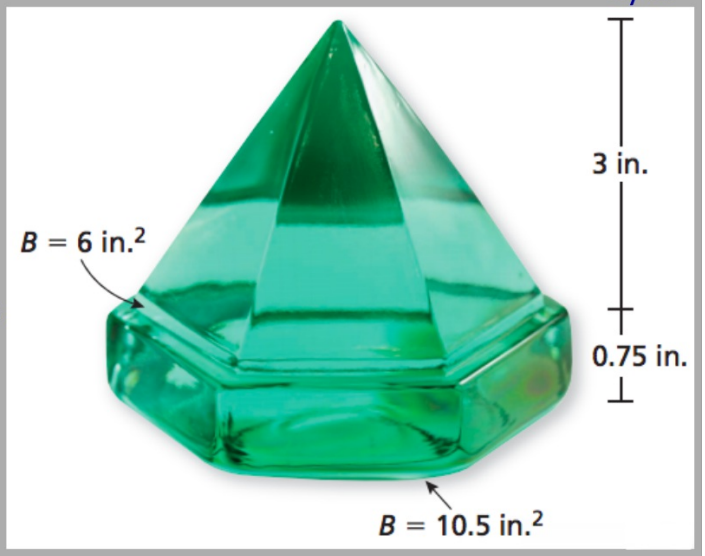


1. Check 7.3 Exercise
2. 7.1, 7.3, & 7.5 Review WS
3. Homework: study for Quiz


DOOR
Promethean Board
3/3
Period 6 - Math 7
Kaleb
Alena Anjula
Simone JP
Toby
Taz Jonathon
Hunter Liyah
Emily David
Sebastian Nick
Mrs. Fowley
1. Check 7.3 Exercise
2. 7.1, 7.3, & 7.5 Review WS
3. Homework: study for Quiz

7.5 Exercise #15

15. Find the amount of glass in the paperweight.



$V = Bh$

↳ hexagon = 10.5

$V = 10.5 \cdot 0.75 = 7.875 \text{ in}^3$

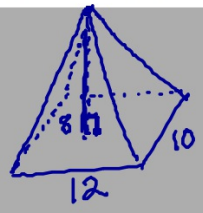
$V = \frac{1}{3}Bh$

↳ hexagon = 6

$V = \frac{1}{3} \cdot 6 \cdot 3 = 6 \text{ in}^3$

$7.875 + 6 = \boxed{13.875 \text{ in}^3}$

1. A tent is in the shape of a pyramid. The base is a rectangle with a length of 12 feet and a width of 10 feet. The height of the tent is 8 feet. Find the volume of the tent.

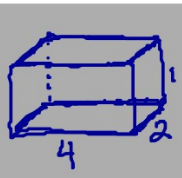


$V = \frac{1}{3}Bh$

B (rectangle) $= b \cdot h = 12 \cdot 10$

$V = \frac{1}{3} \cdot 12 \cdot 10 \cdot 8 = 320 \text{ ft}^3$

2. A cell phone is in the shape of a rectangular prism, with a length of 4 inches, a width of 2 inches, and a height of 1 inch. What is the volume of the cell phone?

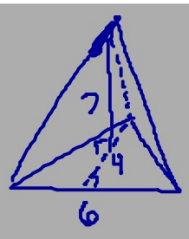


$V = Bh$

B (rectangle) $= b \cdot h$

$V = 4 \cdot 2 \cdot 1 = 8 \text{ in}^3$

3. A sign made of solid wood is in the shape of a pyramid. The base is a triangle with a base of 6 feet and a height of 4 feet. The height of the sign is 7 feet. The wood costs $3 per cubic foot. What is the cost of the sign?



$V = \frac{1}{3}Bh$

↳ $\triangle = \frac{1}{2}bh = \frac{1}{2} \cdot 6 \cdot 4$

$V = \frac{1}{3} \cdot \underbrace{\frac{1}{2} \cdot 6 \cdot 4}_{12} \cdot 7 = 28 \text{ ft}^3 \cdot 3 = \boxed{\$84}$

4. A recycle bin is in the shape of a trapezoidal prism. The area of the base is 220 square inches and the height is 24 inches. What is the volume of the recycle bin?

$V = Bh$

↳ trapezoid

$V = 220 \cdot 24 = \boxed{5{,}280 \text{ in}^3}$

5. A water jug is in the shape of a prism. The area of the base is 100 square inches and the height is 20 inches. How many gallons of water will the water jug hold? $(1 \text{ gal} = 231 \text{ in.}^3)$ Round your answer to the nearest tenth.

$V = B \cdot h$

$V = 100 \cdot 20 = 2{,}000 \text{ in}^3$

$231 \overline{)2{,}000.00}$ → 8.65

-1848

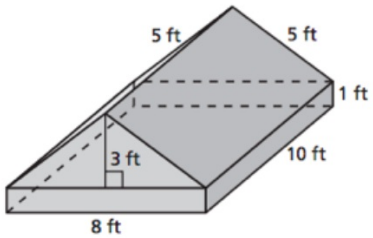
1520

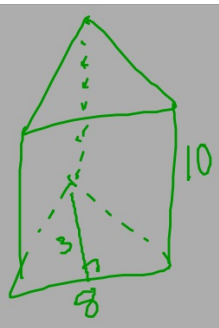
-1386

134

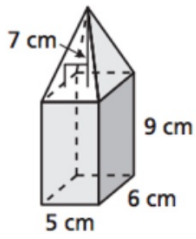
$\approx 8.7 \text{ gal}$

6.





7.



$V = Bh$

↳ rectangle $= b \cdot h$ (8 × 10)

$V = 8 \cdot 10 \cdot 1 = 80\ ft^3$

$V = Bh$

↳ triangle $= \frac{1}{2}bh$ (3, 8)

$V = \frac{1}{2} \cdot 8 \cdot 3 \cdot 10 = 120\ ft^3$

$\frac{1}{2} \cdot 8 \cdot 3 = 12$

$80 + 120 = \boxed{200\ ft^3}$

$V = Bh$

↳ $\square = b \cdot h = 5 \cdot 6$

$V = 5 \cdot 6 \cdot 9 = 270\ cm^3$

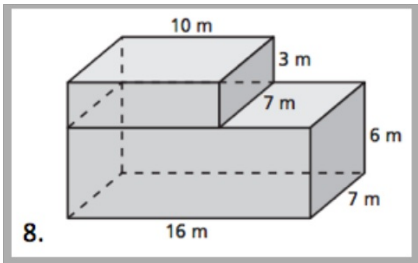
$V = \frac{1}{3}Bh$

↳ $\square = b \cdot h = 5 \cdot 6$

$V = \frac{1}{3} \cdot 5 \cdot 6 \cdot 7 = 70\ cm^3$

$270 + 70 = \boxed{340\ cm^3}$

8.



$V = Bh$

$\hookrightarrow$ rectangle $= b \cdot h = 16 \cdot 7$

$V = 16 \cdot 7 \cdot 6 = 672\,m^3$

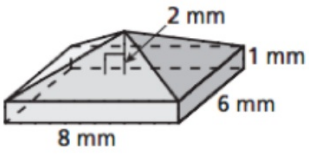
$V = Bh$

$\hookrightarrow$ rectangle $= b \cdot h = 10 \cdot 7$

$V = 10 \cdot 7 \cdot 3 = 210\,m^3$

$672 + 210 = \boxed{882\,m^3}$

9.



$V = Bh$

$\hookrightarrow \square = b \cdot h = 8 \cdot 6$

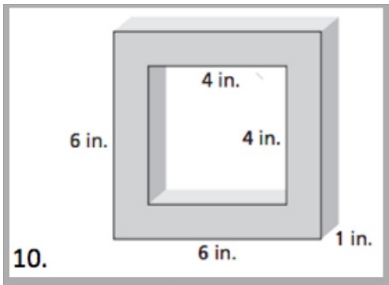
$V = 8 \cdot 6 \cdot 1 = 48\,mm^3$

$V = \frac{1}{3}Bh$

$\hookrightarrow \square = b \cdot h = 8 \cdot 6$

$V = \frac{1}{3} \cdot 8 \cdot 6 \cdot 2 = 32\,mm^3$

$48 + 32 = \boxed{80\,mm^3}$



10.

$V = Bh$

$\hookrightarrow \square = b \cdot h = 6 \cdot 1$

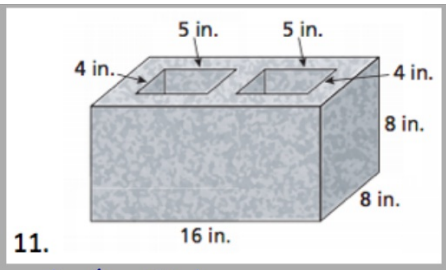
$V = 6 \cdot 1 \cdot 6 = 36 \text{ in}^3$

$V = Bh$

$\hookrightarrow \square = b \cdot h = 4 \cdot 1$

$V = 4 \cdot 1 \cdot 4 = 16 \text{ in}^3$

$36 - 16 = \boxed{20 \text{ in}^3}$



11.

$V = Bh$

$\hookrightarrow \square = b \cdot h = 16 \cdot 8$

$V = 16 \cdot 8 \cdot 8 = 1{,}024 \text{ in}^3$

$V = Bh$

$\hookrightarrow \square = b \cdot h = 4 \cdot 5$

$V = 4 \cdot 5 \cdot 8 = 160 \text{ in}^3$

$\times 2$

320 in^3

$1{,}024 - 320 = \boxed{704 \text{ in}^3}$

64×16

$384 + 64\text{x} = 1024$

YOU CAN USE A NOTECARD ON TOMORROW'S QUIZ!

Homework: Study 7.1, 7.3, & 7.5

- comp. book notes and exercises
- odd-numbered exercises (answers in back)
- today's review