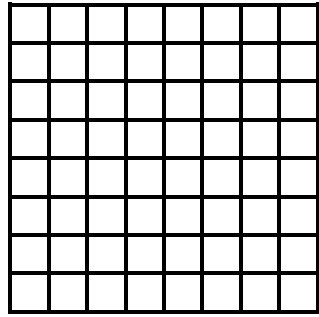


2-3 Weekly Homework

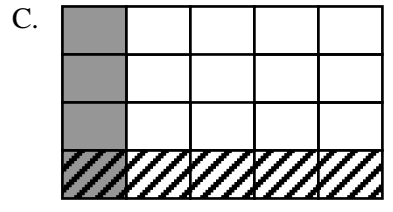
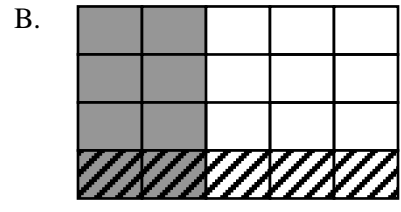
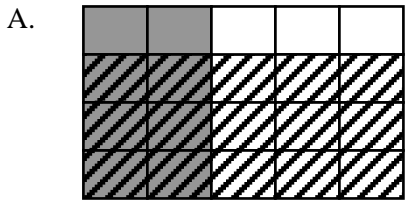
1. The model below represents $\sqrt{64} = 8$.



Which arrangement of small squares can be used to model a large square that represents $\sqrt{256}$?

- A 4 rows of 64 squares
- B 2 rows of 128 squares
- C 16 rows of 16 squares
- D 18 rows of 18 squares

2. Match each model with the expression $\frac{1}{4} \times \frac{2}{5}$ _____ $\frac{1}{4} \times \frac{1}{5}$ _____ $\frac{3}{4} \times \frac{2}{5}$ _____



3. Using the table below, determine the cost of Stephanie's school supplies. She bought 3 notebooks, 6 pens, and 2 packages of paper.

| Supplies | Cost (per item) |
|----------|--------------------|
| Notebook | \$3.75 |
| Paper | \$1 |
| Pen | \$0.50 |

4. Jason bought 21 party hats priced at 3 for \$0.65 and 21 noisemakers priced at 7 for \$1.25. What was the total cost of the hats and noisemakers, not including tax?

5. What is the value of the expression?

$$(7 + 2)^2 \div 3 - 4 \times 7$$

6. The model below can be used to represent the area of a square with a side length of $\sqrt{16}$ units.

```

X X X X
X X X X
X X X X
X X X X
    
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What is another way to represent the side length of this square?

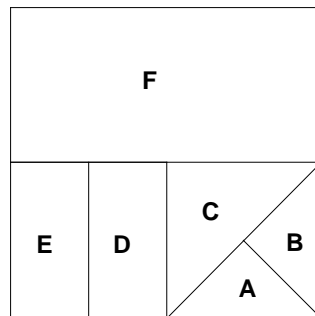
A 16

B 4

C $\sqrt{64}$

D $\sqrt{4}$

Mr. Morgan owns a large building that he plans to lease as office space. He will charge \$6,400 a month to lease the entire building. If someone wants to lease only a fraction of the space, he will charge the same fractional amount of \$6,400 for the monthly rent.



7. How much should Mr. Morgan charge a person who wants to lease the space shown in the diagram below that fills area F?

8. How much should Mr. Morgan charge a person who wants to lease the space shown in the diagram below that fills area D?

9. How much should Mr. Morgan charge a person who wants to lease the space shown in the diagram below that fills area C?

10. How much should Mr. Morgan charge a person who wants to lease the space shown in the diagram below that fills area A?

