



This product helps students to understand and practice finding area through a variety of models. Students need to see what area actually is and how it relates to multiplication and addition. To further their understanding, I've included how using the distributive property can help to break apart regular and irregular shapes to make finding area easier.

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Included:

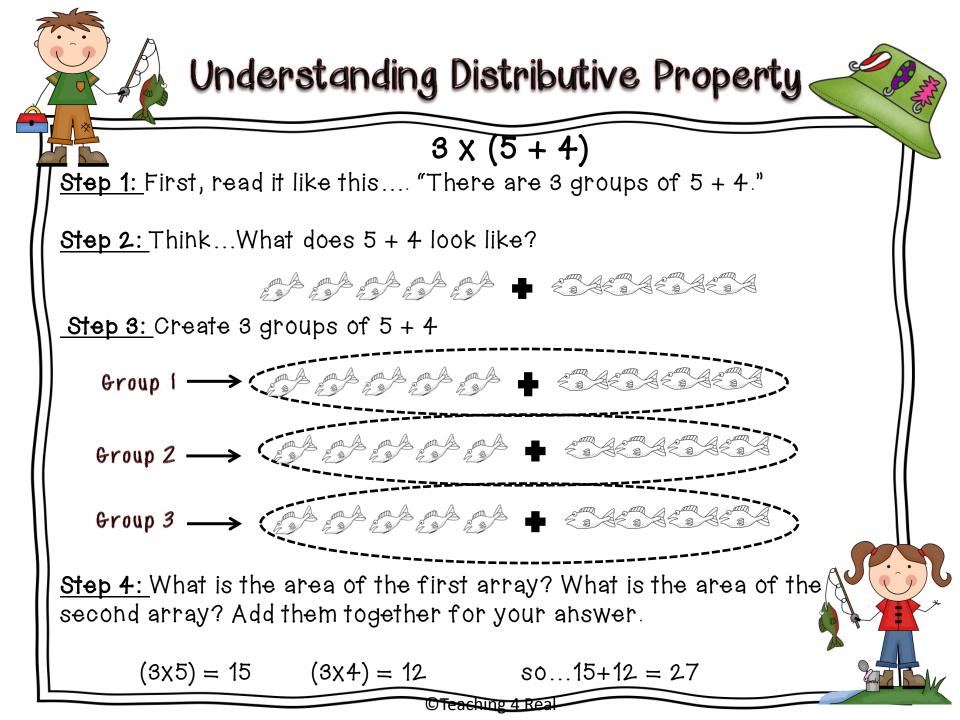
**Answer Key

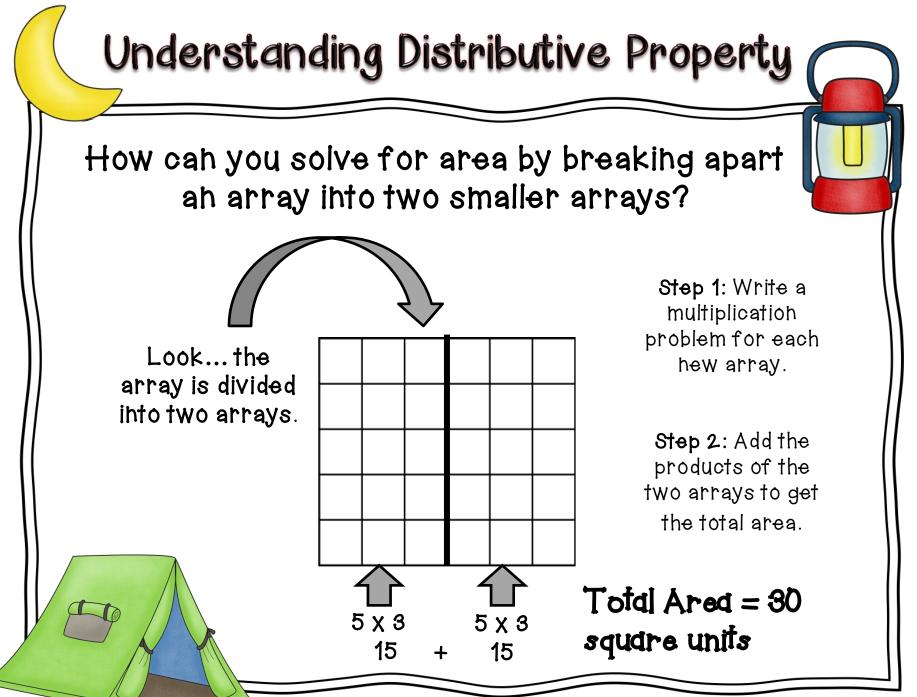
2 Visual Posters than can be shown on Power Point or glued into a math journal.

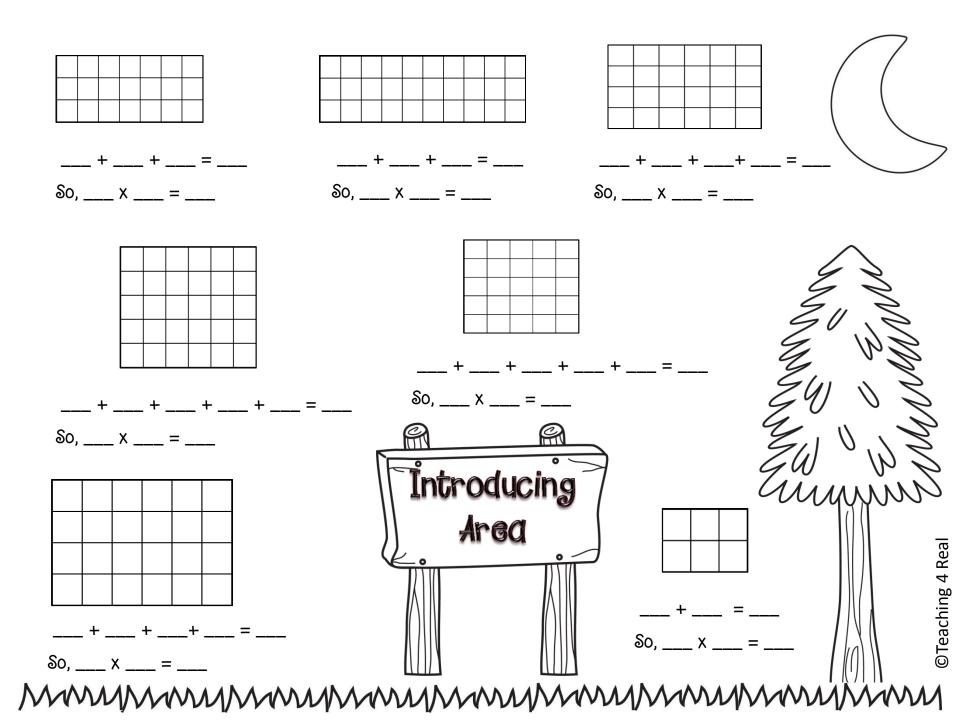
10 practice sheets of varying models and strategies

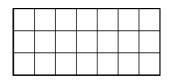
Area Scoot Game (with answer key)

I hope you enjoy and find this practice helpfull ~ Teaching 4 Real



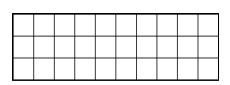






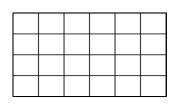
7 + 7 + 7 = 21

So, $3 \times 7 = 21$ sq units



10 + 10 + 10 = 30

So, $3 \times 10 = 30$ sq units



6 + 6 + 6 + 6 = 24

3 + 3 = 6

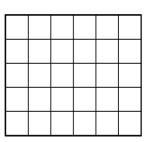
So, $2 \times 3 = 6$ sq units

So, $4 \times 6 = 24$ sq units



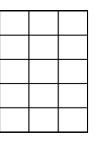
UMP

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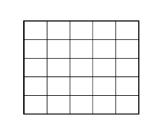
6 + 6 + 6 + 6 + 6 = 30

So, 5 x 6 = 24 sq units



3 + 3 + 3 + 3 + 3 = 15

So, $5 \times 3 = 15$ sq units



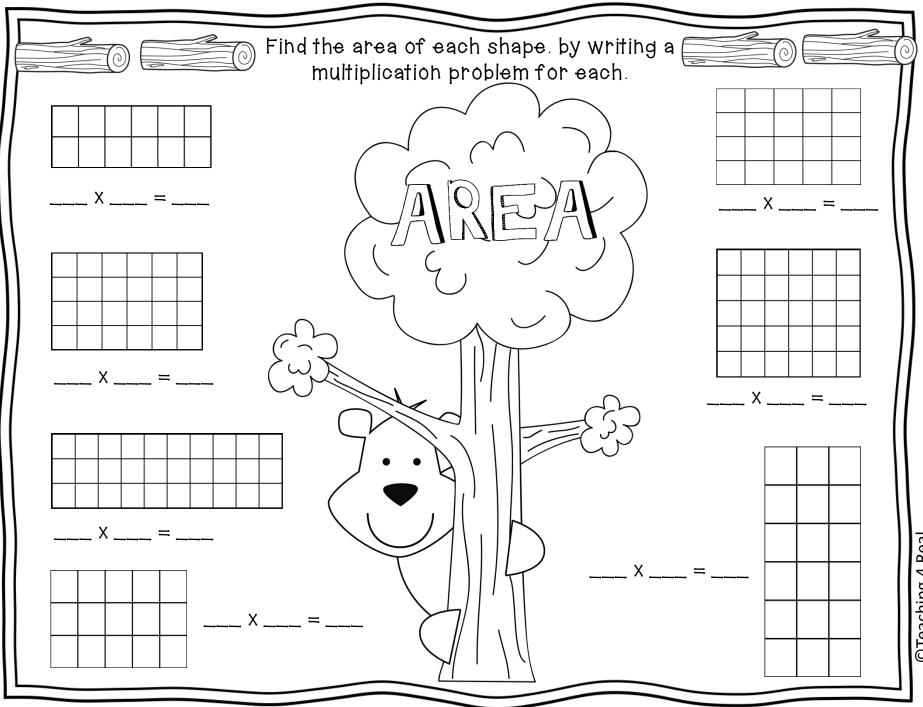
5 + 5 + 5 + 5 + 5 = 25

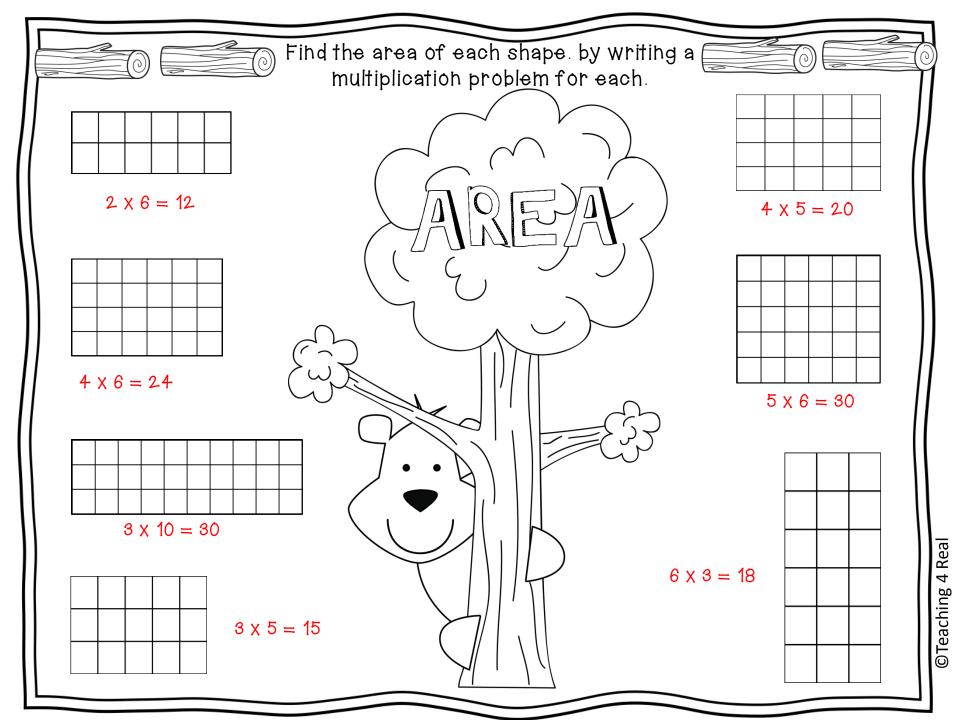
So, $5 \times 5 = 25$ sq units

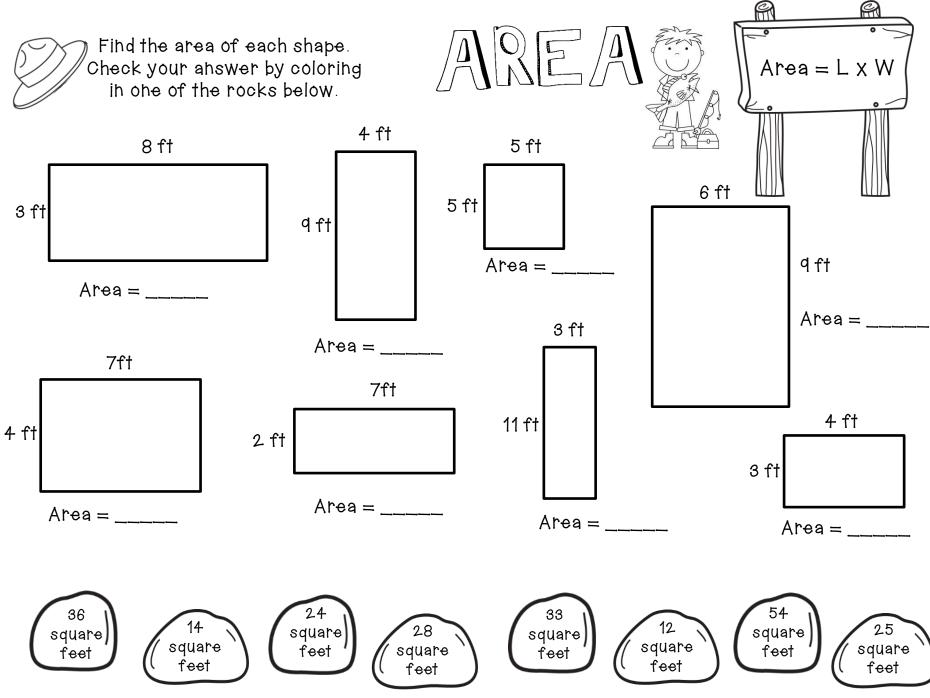
Introducing

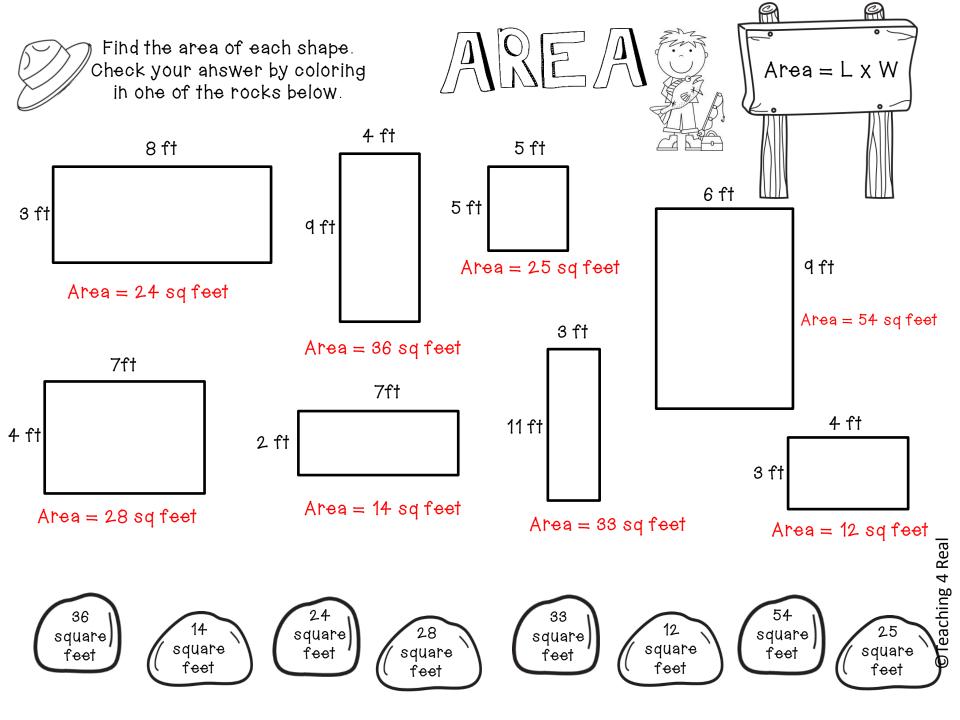
Area

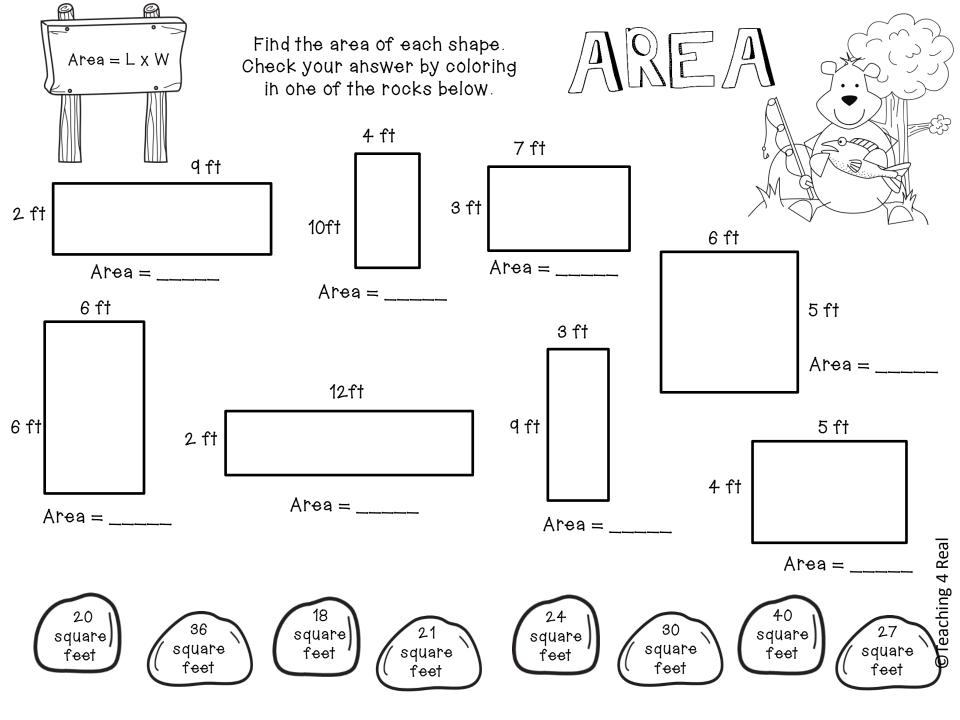
C

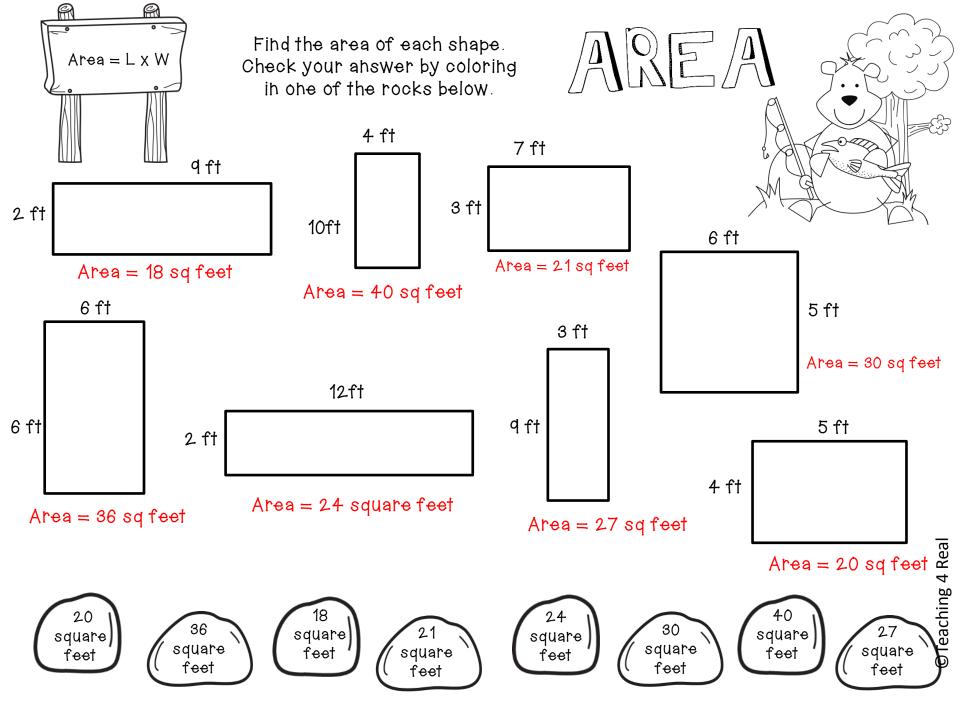


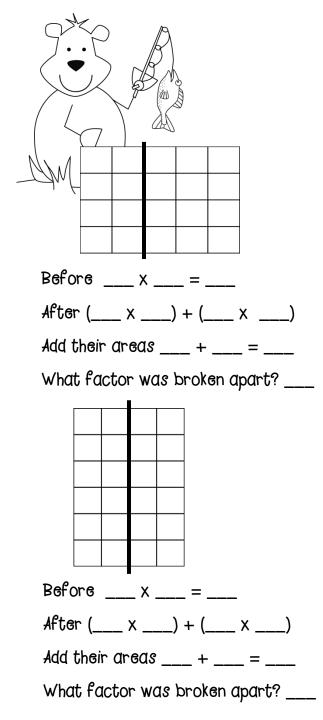


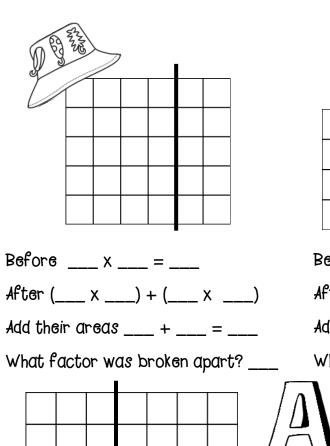




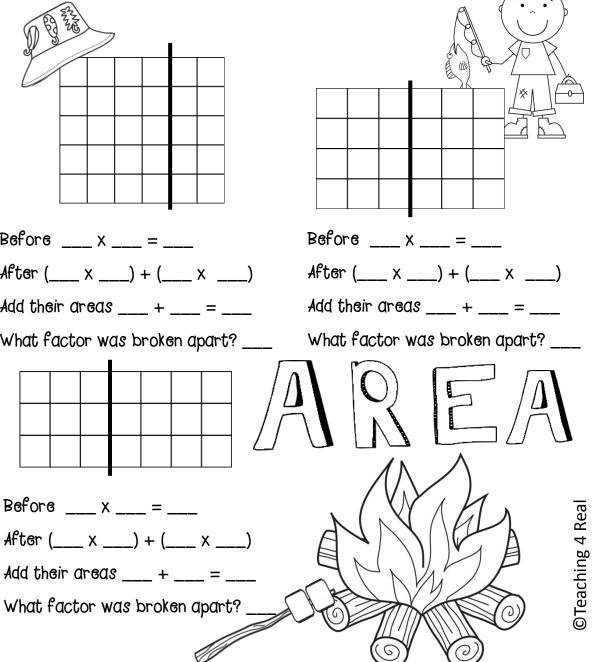


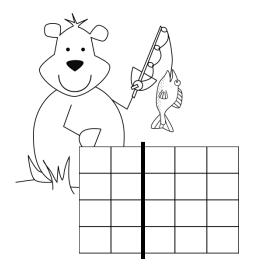






Before ____ X ____ = ____





Before $4 \times 5 = 20$

After $(4 \times 2) + (4 \times 3)$

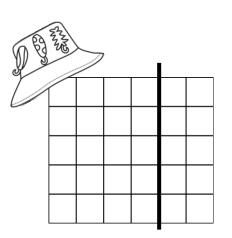
Add their areas: 8 + 12 = 20

What factor was broken apart? 5

Before $6 \times 4 = 24$ After $(6 \times 2) + (6 \times 2)$

Add their areas: 12 + 12 = 24

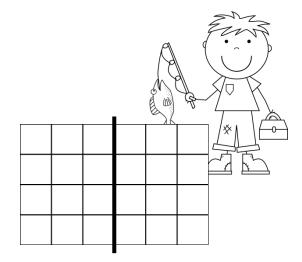
What factor was broken apart? 4



Before $5 \times 6 = 30$ After $(5 \times 4) + (5 \times 2)$

Add their areas: 20 + 10 = 30

What factor was broken apart? 6

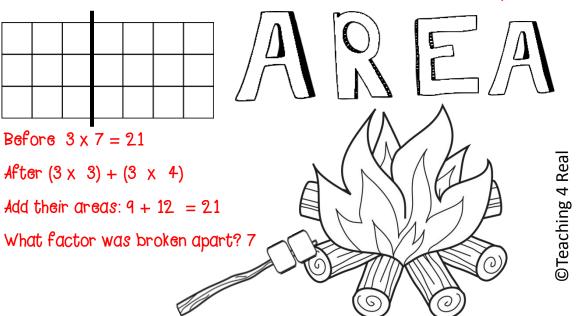


Before $4 \times 6 = 24$

After $(4 \times 3) + (4 \times 3)$

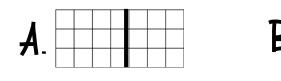
Add their areas: 12 + 12 = 24

What factor was broken apart? 6

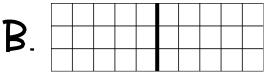


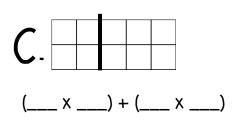


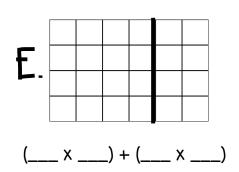
Label the following arrays. and then match it to the equations on the canoes..

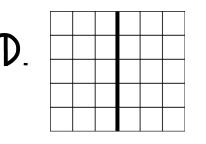


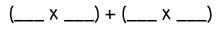
(____ X ____) + (____ X ____)

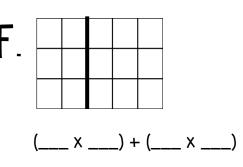


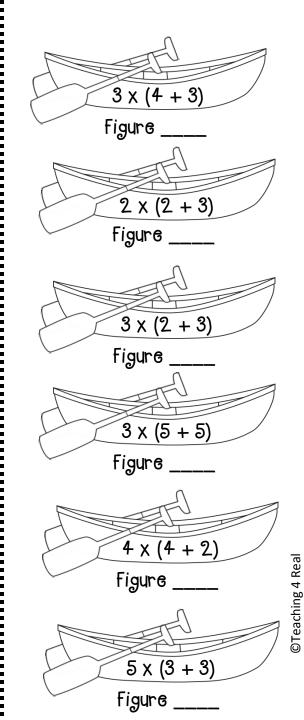






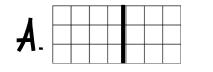




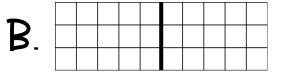


AREA

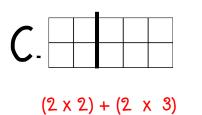
Label the following arrays. and then match it to the equations on the canoes.

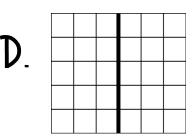


 $(3 \times 4) + (3 \times 3)$

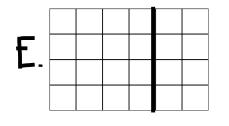


(3 x 5) + (3 x 5)

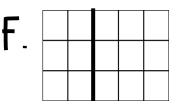




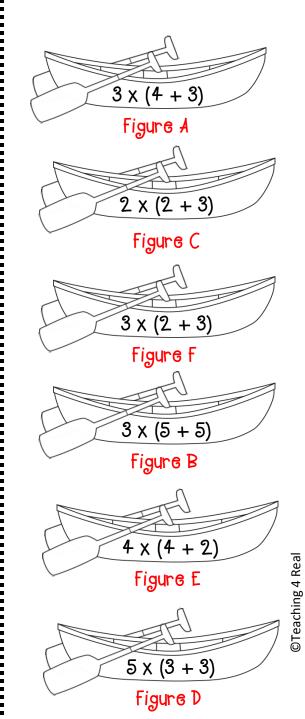
 $(5 \times 3) + (5 \times 3)$

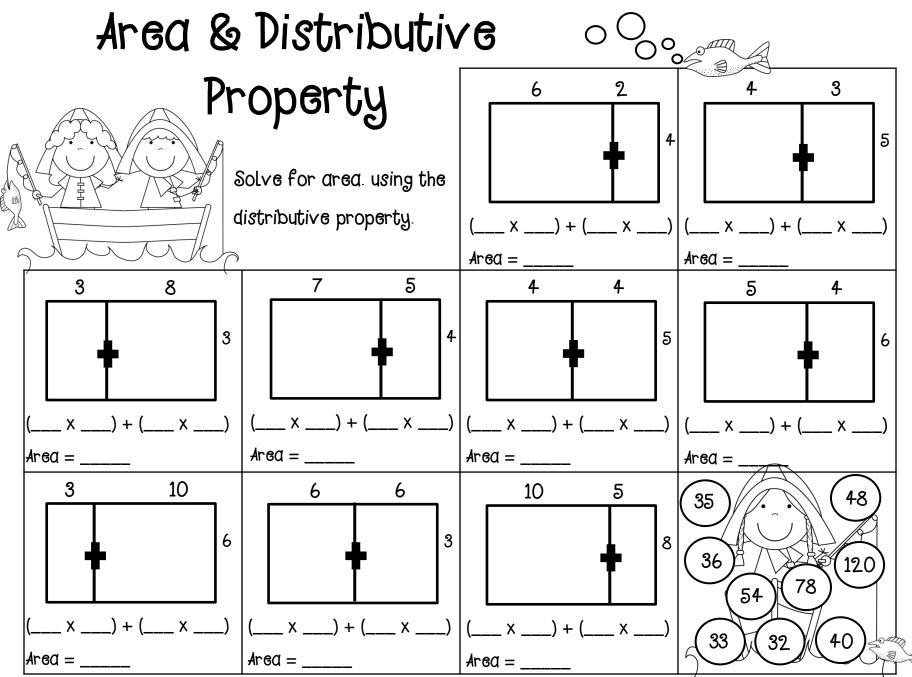


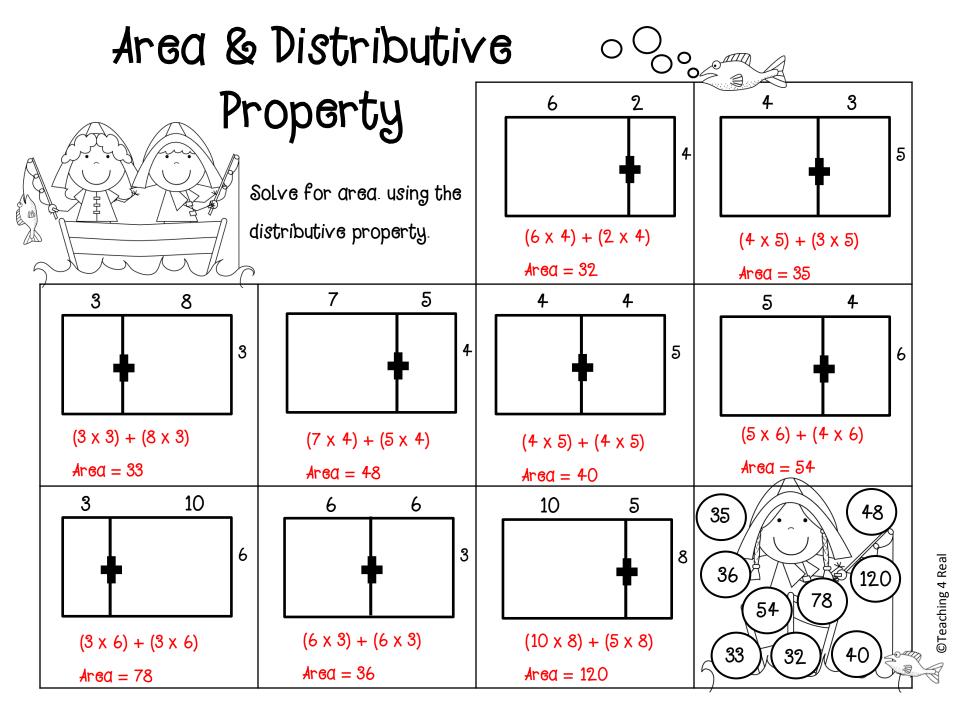
(4 × 4) + (4 × 2)

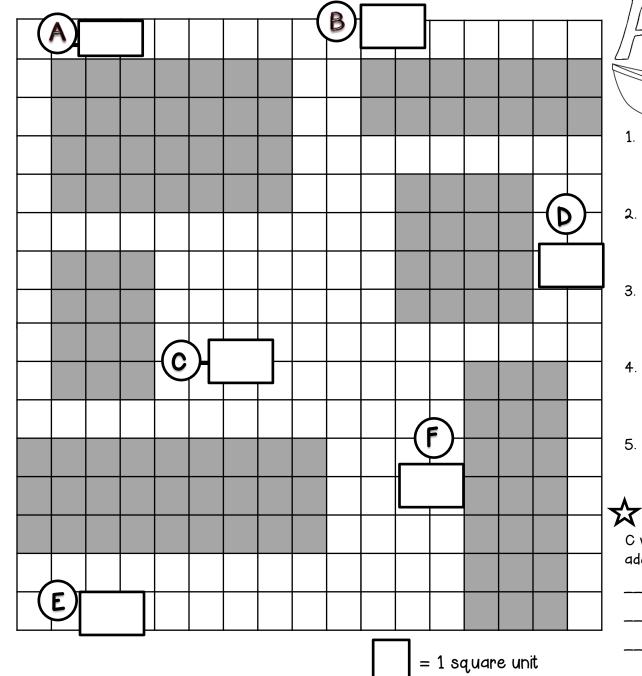


 $(3 \times 2) + (3 \times 3)$





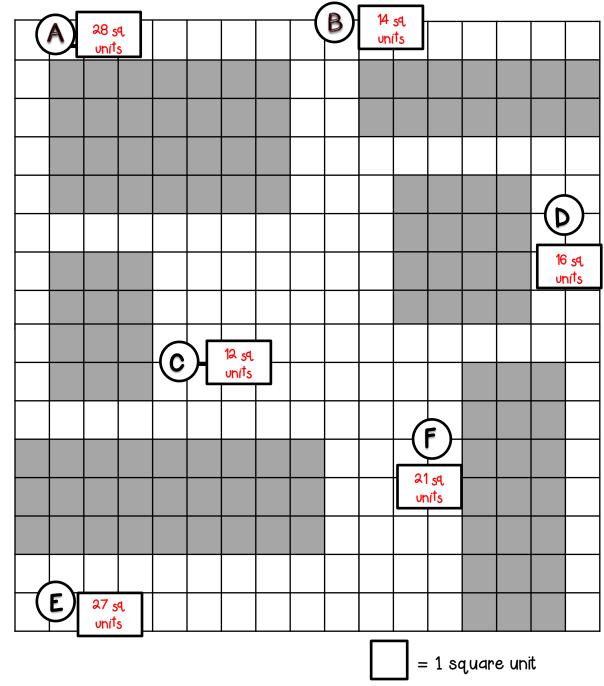




Teaching 4

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- How much larger are the areas of 1. figure A & B than C & D?
 - Write two multiplication equations that could solve the area of figure D.
- 3. Write two multiplication equations that could solve the area of figure E.
- 4. If figure F's area increased by two more rows, what would the area be?
- Which figure equation (3 x 5) + (-How can you solve for the area of figure C with both multiplication and repeated 2 Explain.



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1. How much larger are the areas of figure A & B than C & D? 14 square units

Write two multiplication equations that 2. could solve the area of figure D. Answers may vary. Ex) (4x 2) { (4 x 2)

3. Write two multiplication equations that could solve the area of figure E. Answers may vary. (3 x 3) { (3 x 6)

4. If figure F's area increased by two more rows, what would the area be? 27 square units

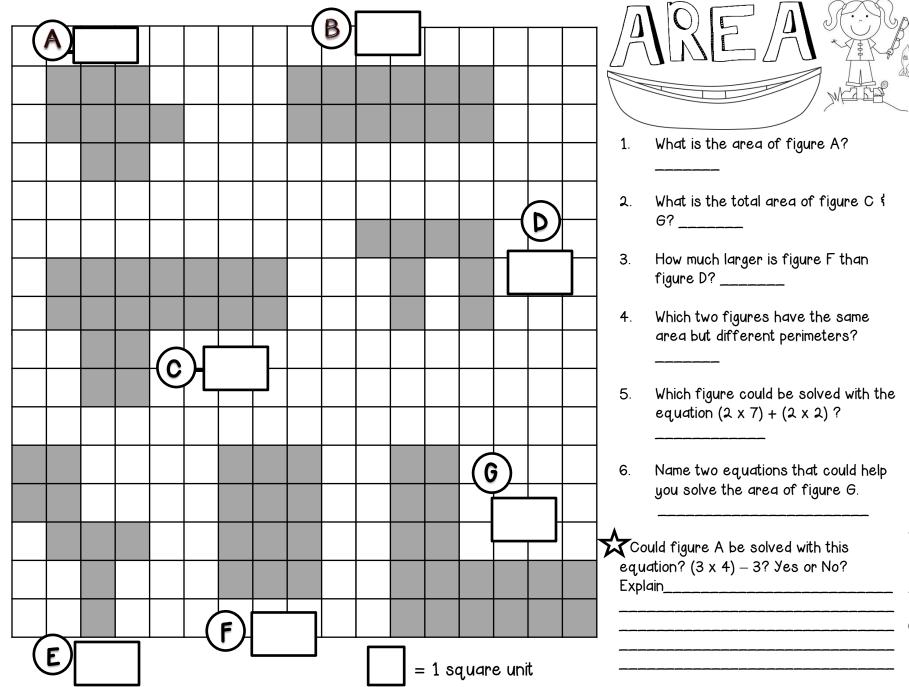
5. Which figure could be solved with the equation $(3 \times 5) + (3 \times 4)$? Figure E

 \mathbf{x} How can you solve for the area of figure C with both multiplication and repeated addition? Explain. You can count the number of rows and columns

and multiply like 4 x 3 = 12. There are 4 rows of Θ

3 units each so you can add

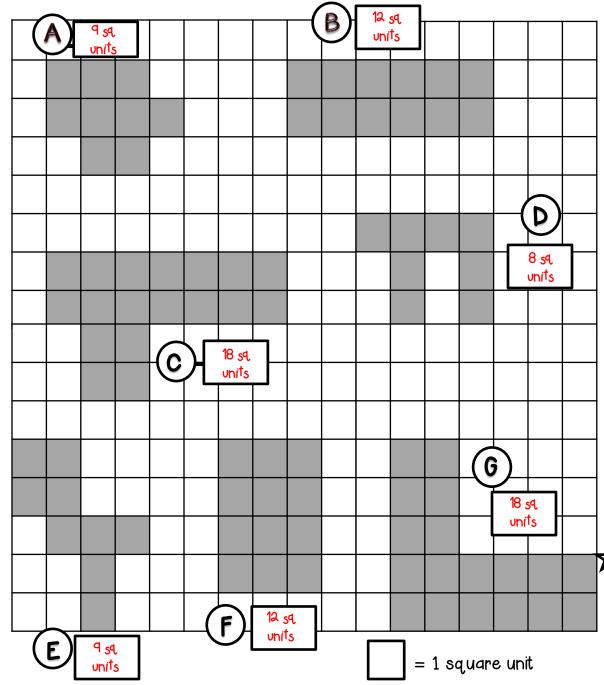
3+3+3+3 = 12 square units.



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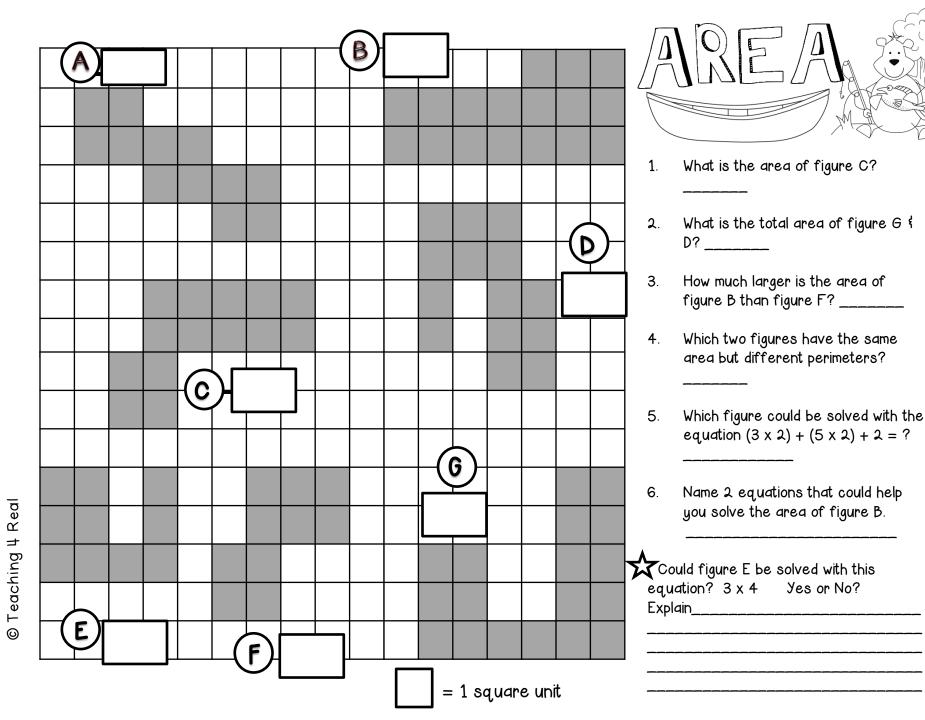
Teaching

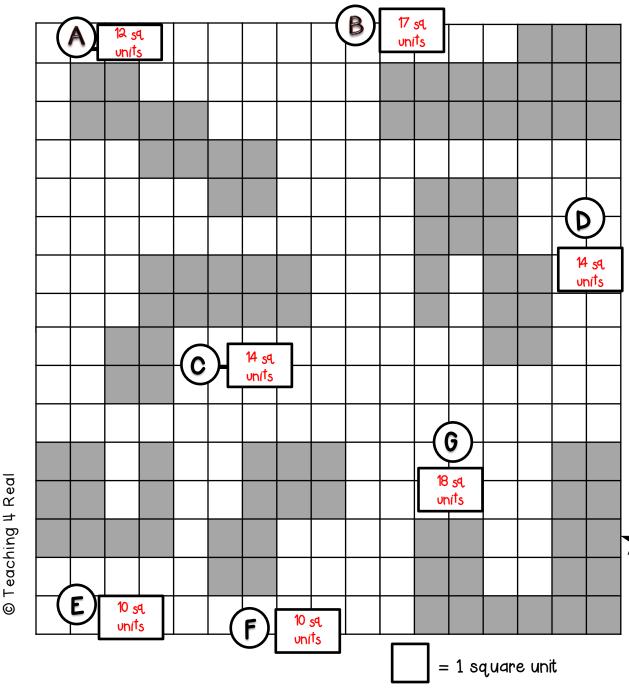
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- 1. What is the area of figure A? 9 square units
- 2. What is the total area of figure C \$ 6? 36 square units
- 3. How much larger is figure F than figure D? 20 square units
- Which two figures have the same area 4. but different perimeters? Figures A & E or B & F
- 1. Which figure could be solved with the equation $(2 \times 7) + (2 \times 2)$? Figure C
- 1. Name two equations that could help you solve the area of figure G. Answers may vary. Possibilities may include $(3 \times 2) \notin (2 \times 6)$

Could figure A be solved with this equation? $(3 \times 4) - 3$? Yes or No? Explain. Yes, because if you draw a rectangle using the gray squares and the white squares Could figure A be solved with this you could use a multiplication problem of 3 x 4. You would then have to subtract the 3 white squares to get the area.



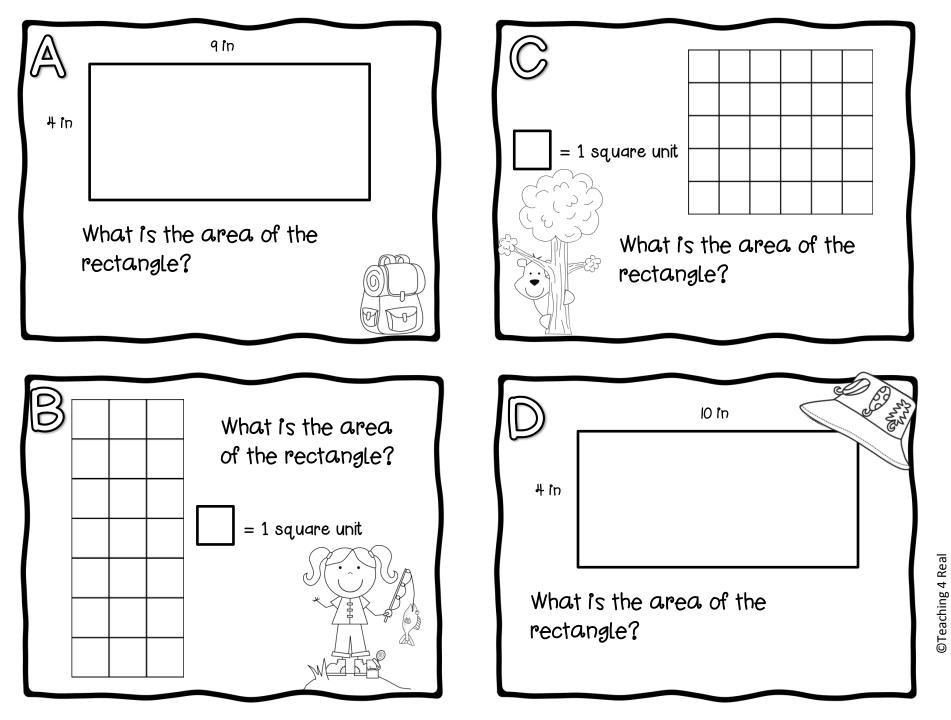


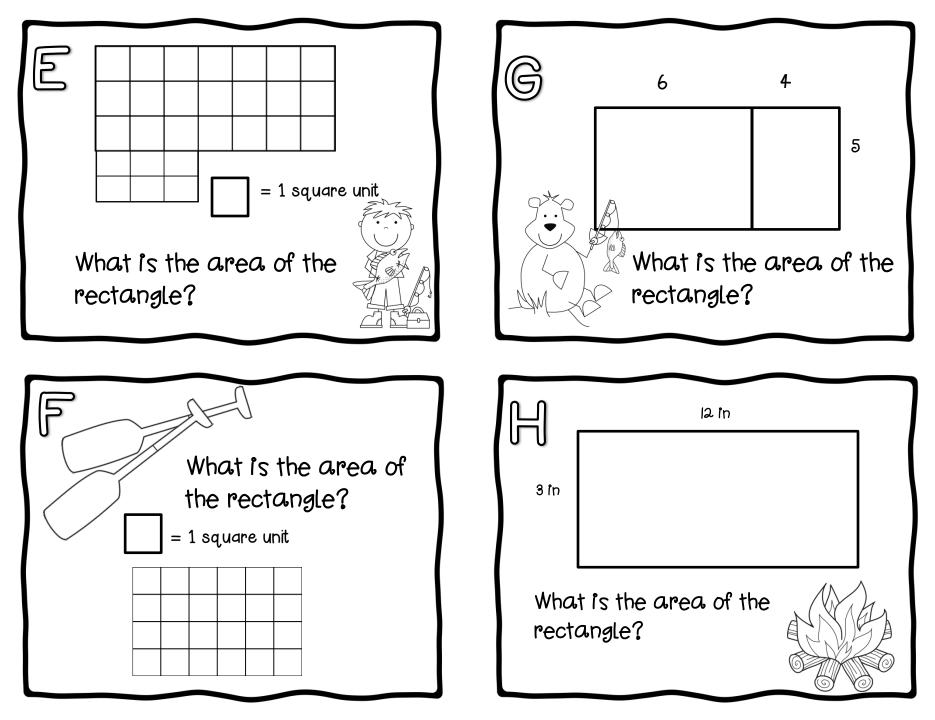


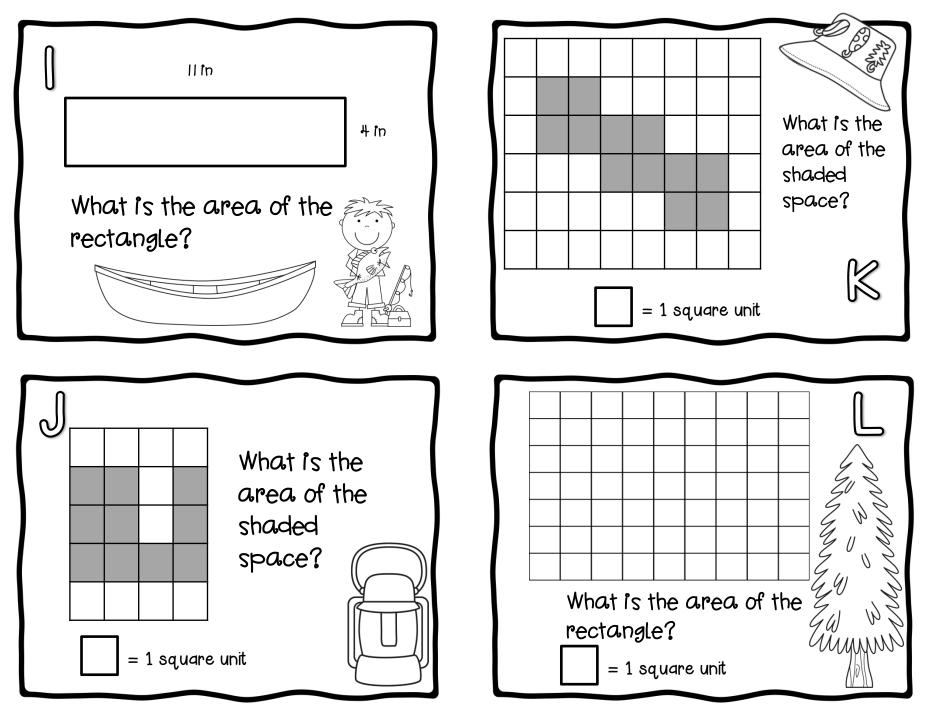
- What is the area of figure C?
 14 square units
- What is the total area of figure 6 \$
 D? 32 square units
- 3. How much larger is the are of figure B than figure F? 7 square units
- Which two figures have the same area but different perimeters?
 Figures C \$ D
- 5. Which figure could be solved with the equation $(3 \times 2) + (5 \times 2) + 2 = ?$ Figure G
- 6. Name 2 equations that could help you solve the area of figure B
 Possibility is (2 x 4) ≤ (3 x 3)
 Answers will vary

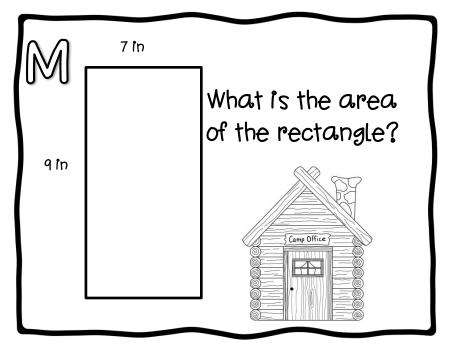
Could figure E be solved with <u>ONLY</u> this equation? 3 x 4 Yes or No? Explain. No, because 3 x 4 assumes that all of the unit squares are being used. However 2 units squares are not used.

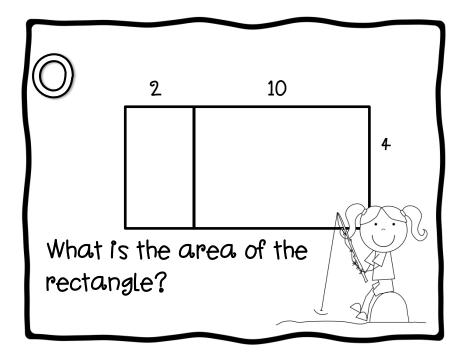


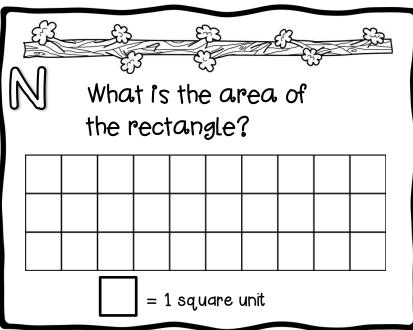


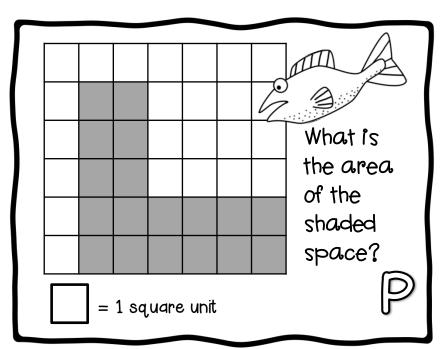


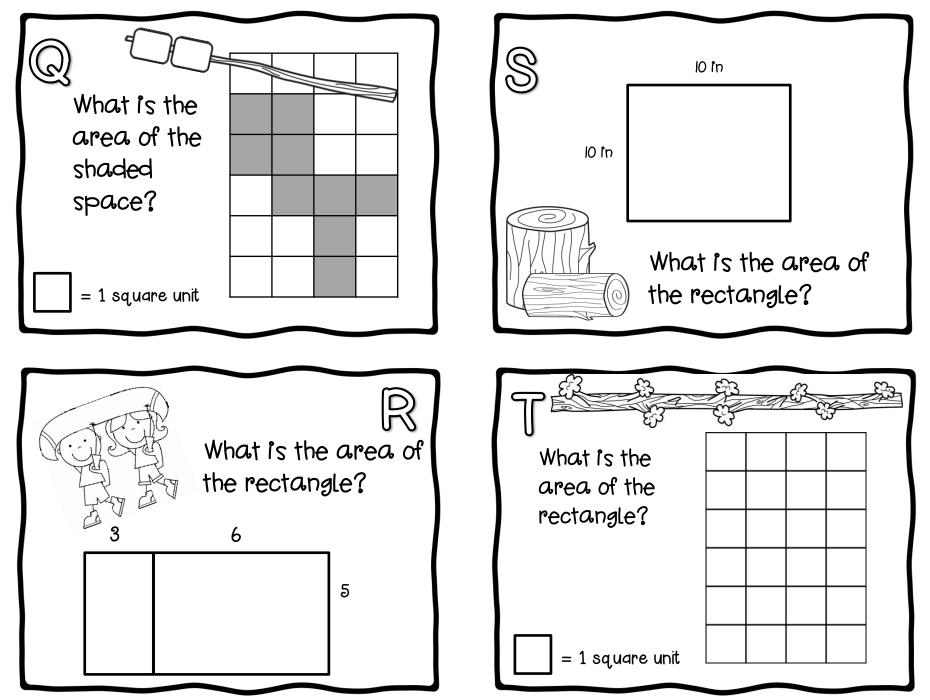


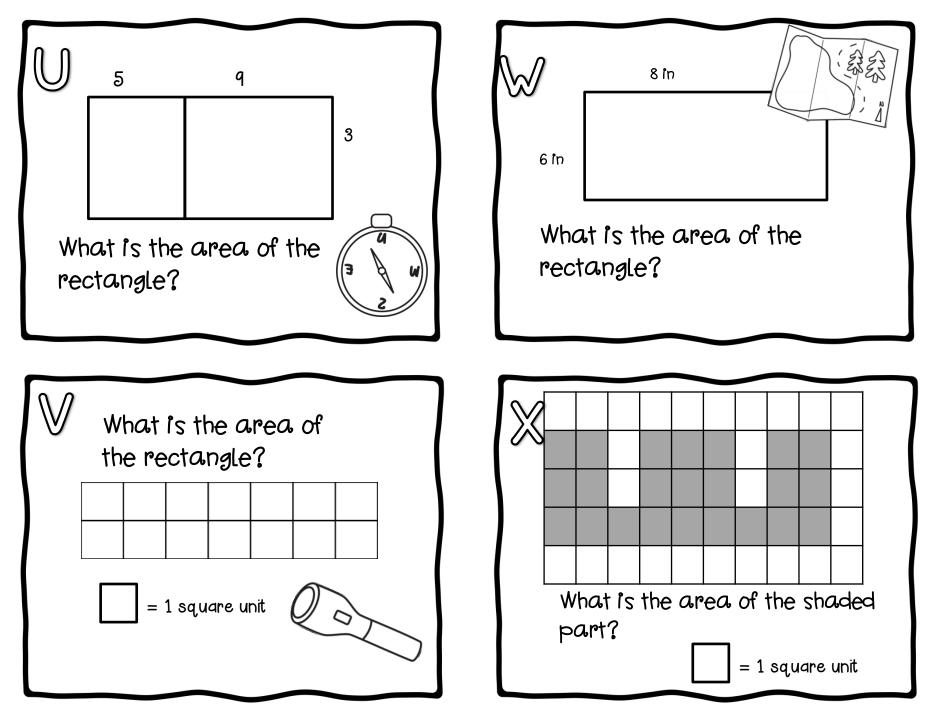


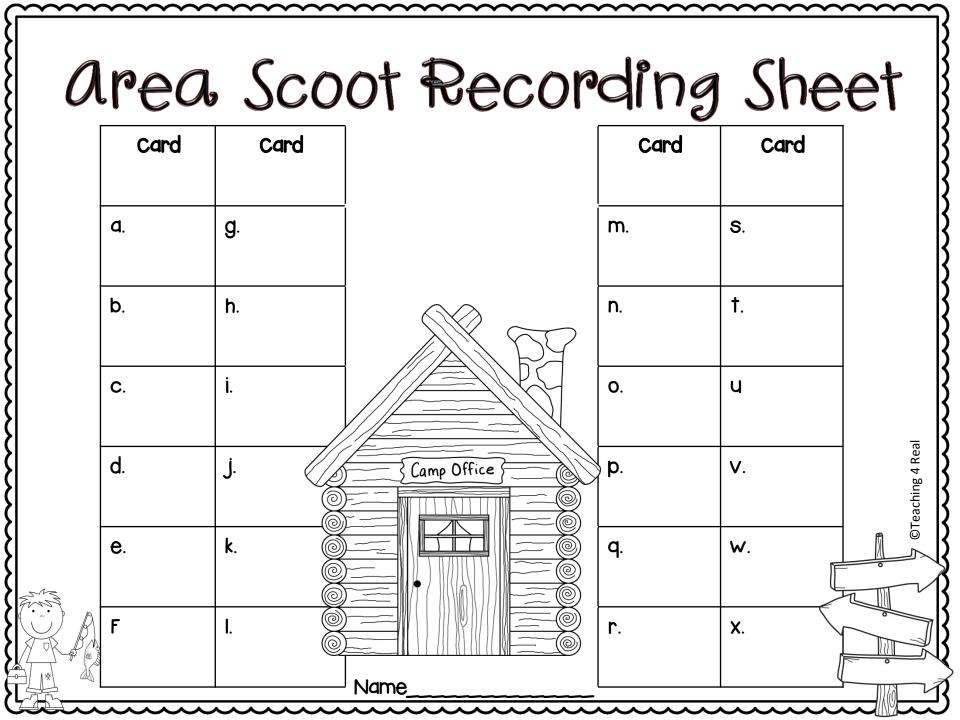


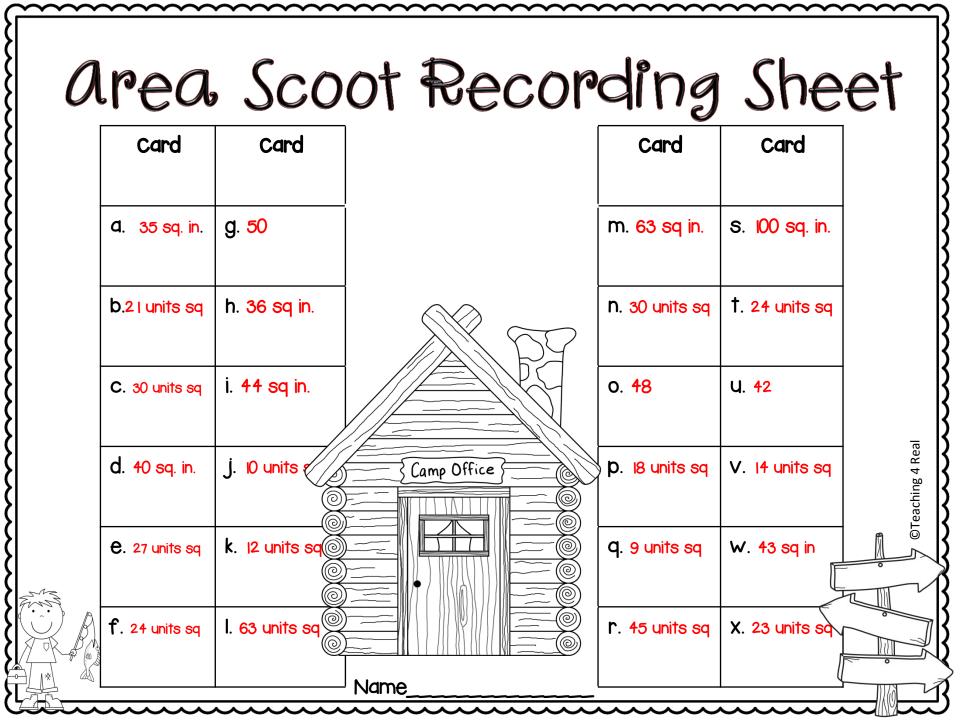














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