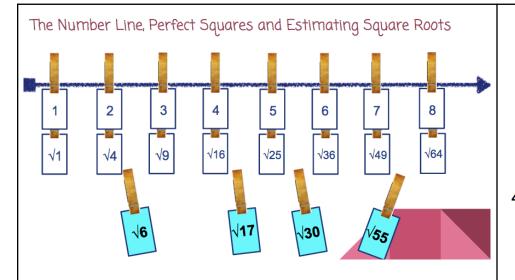
Secondary Strategies that Sustain Sense Making NCTM Annual Meeting Session #328 9:30 - 10:30 AM San Francisco, CA, April 15, 2016 Victoria Miles, Shephali Fox

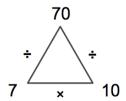


Fact Family Triangles

Create a fact triangle to show the relationship between:

$$\frac{2}{3}\left(x-6\right)=6$$





Bar Models (Strip/Tape Diagrams)

The amount of money Jamie earns is proportional to the number of hours she works. Jamie earns \$62.50 working 5 hours.

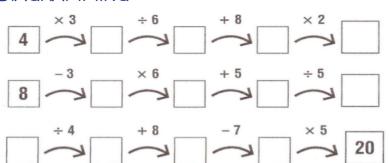
Write and solve an equation to show how much money Jamie makes per hour.

Jamie ? \$62.50 _____

Bar Models (Strip/Tape Diagrams)

Devon exercised the same amount of time each day for 5 days last week. He swam and walked every day. He walked 10 minutes each day. How many minutes each day did he swim?

DIAGRAMMING

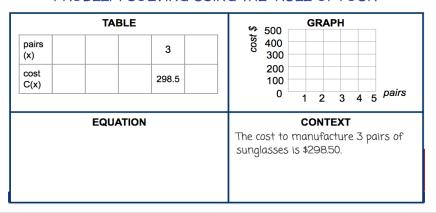


PROBLEM SOLVING USING DIAGRAMMING

Jessica rented one video game and three movies for a total of \$11.50. The video game cost \$4.75 to rent. Each movie cost the same amount to rent. What amount did Jessica pay to rent each movie?



PROBLEM SOLVING USING THE "RULE OF FOUR"

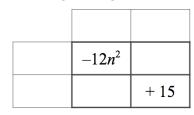


AREA MODEL - MULTIPLYING POLYNOMIALS (Box Strategy)

(x+2)(x-3)

(3x-2)(2x-1)

Factoring using Box Strategy $-12n^2 - 11n + 15$



This expression has too many pieces for it to be a perfect square. How many extra ones do you have? Rewrite as an equivalent expression having a perfect square component.

$$x^2 + 6x + 11 =$$

