

# Math in Focus

# Sample Problems

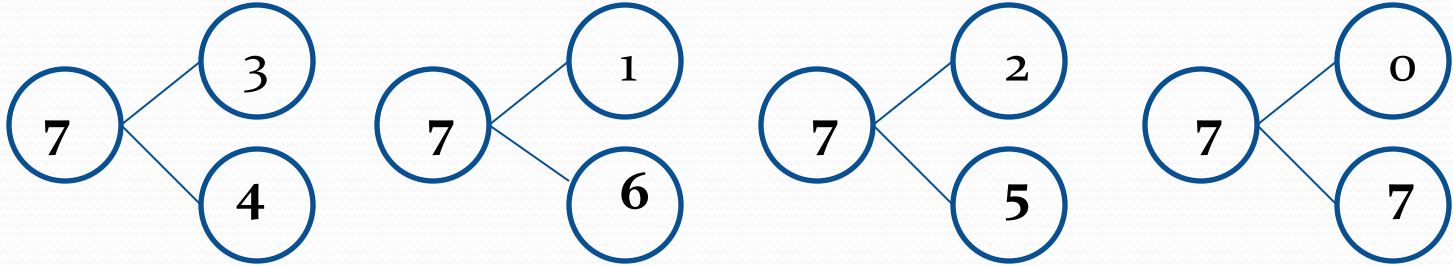
Number Bonds  
and  
Bar Modeling

# Grade 1 – Number Bonds

- Create number bonds for 7.
- Create a fact family using 4, 7, and 3.
- $15 - 6$

# Grade 1 – Number Bonds

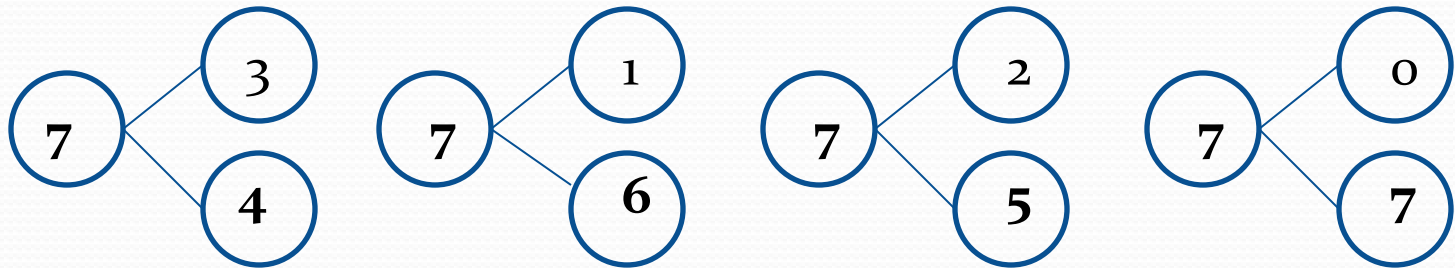
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- Create a fact family using 4, 7, and 3.

# Grade 1 – Number Bonds

- Create number bonds for 7.



- Create a fact family using 4, 7, and 3.

$$4 + 3 = 7$$

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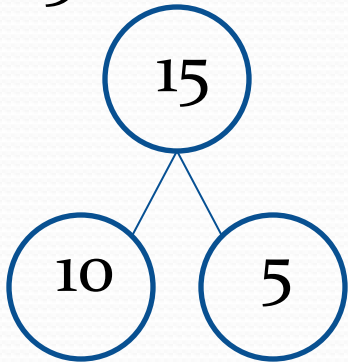
$$7 - 3 = 4$$

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# Grade 1 – Number Bonds

- Create number bonds for 7.
- Create a fact family using 4, 7, and 3.

- $15 - 6$



$$10 - 6 = 4$$

$$4 + 5 = 9$$

# Grade 2 – Bar Modeling

- 15 - 6
- A red box has 326 pencils. The red box has 78 fewer pencils than the blue box. How many pencils are in the blue box?



# Grade 2 – Bar Modeling

- $15 - 6$



# Grade 2 – Bar Modeling

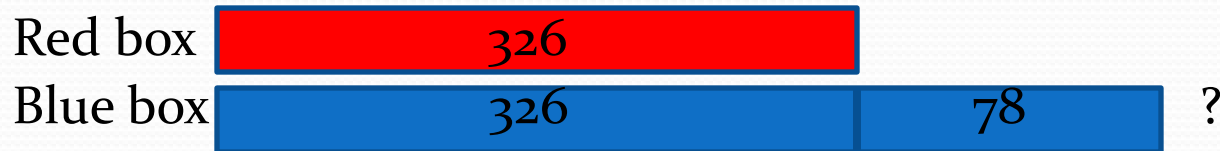
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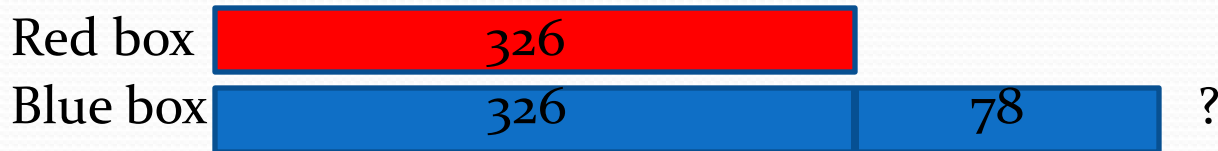
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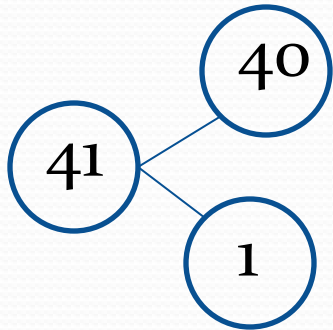
$$\begin{array}{r} 326 \\ +78 \\ \hline 404 \end{array}$$

There are 404 pencils in the blue box.



# Grade 3 – Number bonds

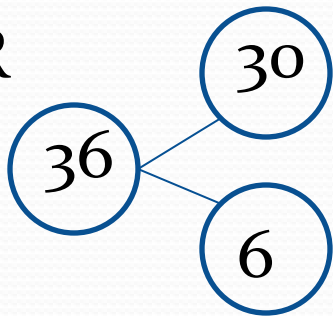
- Mental math  $36 + 41$



$$36 + 40 = 76$$

$$76 + 1 = 77$$

OR



$$41 + 30 = 71$$

$$71 + 6 = 77$$

# Grade 3 – Bar Modeling

- June scored 210 points. May scored 80 points fewer than June did. What is their total score?

June  210 points

May

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June  210 points

May 

$$210 - 80 = 130$$

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$$210 - 80 = 130$$

$$210 + 130 = 340$$

The girls scored 340 points in all.

# Grade 4 – Bar Modeling

- Elise spent \$35, which is  $\frac{7}{9}$  of the amount that she had. How much money did she have at first?



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\$35



# Grade 4 – Bar Modeling

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\$35



7 units is \$35

$$\frac{35}{7}$$

1 unit is \$5

9 units is \$45

$$9 \times 5$$

Elise had \$45 to start.

# Grade 5 – Bar Modeling

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Hector



Ted

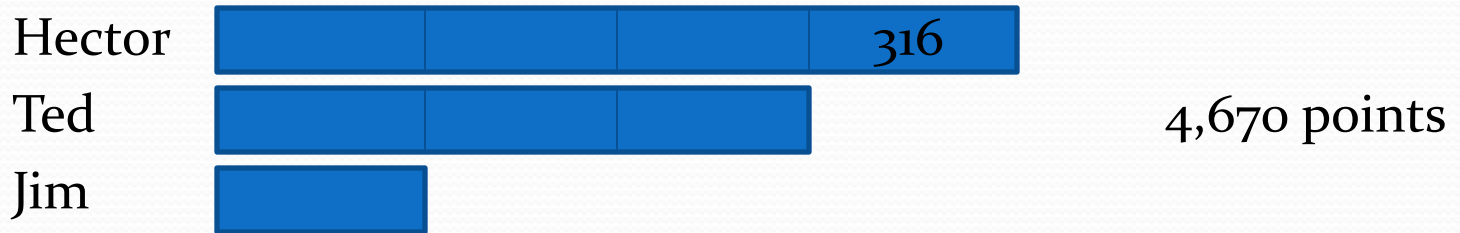


4,670 points

Jim

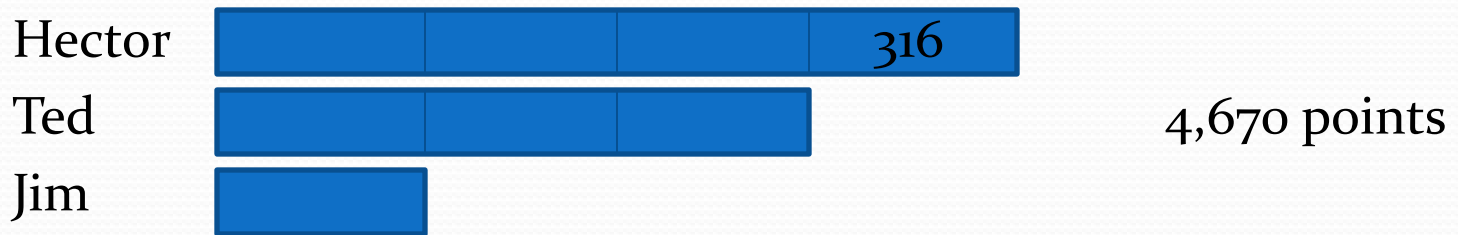
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$$4,670 - 316 = 4,354$$

7 units is 4,354 points

$$4,354 / 7$$

1 unit is 622 points

3 units is 1,866 points

$$3 \times 622$$

Ted scored 1,866 points.