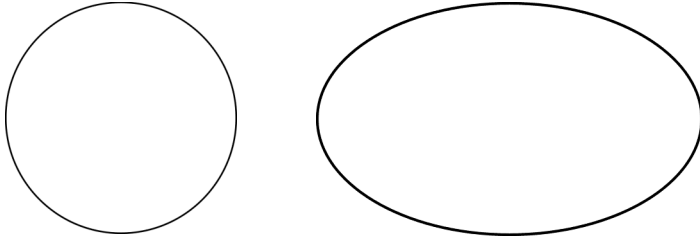
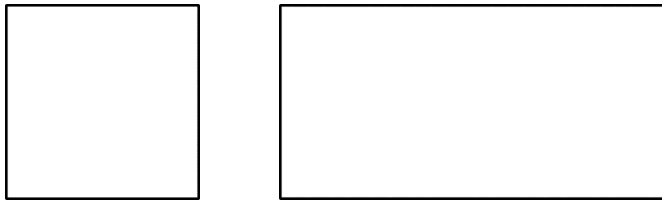


1. How are the shapes alike?
How are they different?

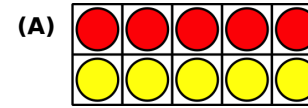
1.



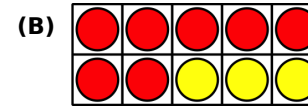
2.



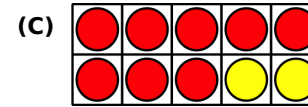
2. Draw a line from each 10-frame to the equation it matches.



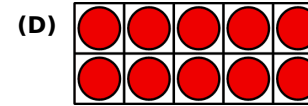
(1) $10 = 8 + 2$



(2) $10 = 10 + 0$



(3) $10 = 5 + 5$



(4) $10 = 7 + 3$

3. Clare wrote some expressions.
Each expression makes a ten.
She spilled water on her work.
Find the digit that could be under each water mark.

1. $2 \text{ [water mark]} + 3$

2. $48 + \text{[water mark]}$

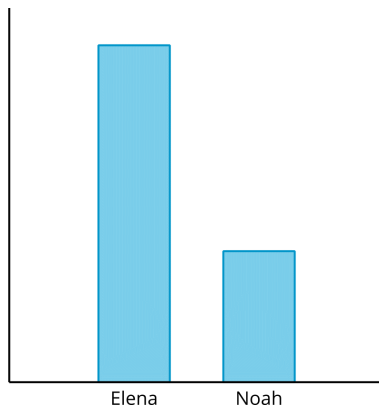
3. $6 \text{ [water mark]} + 9$

4. $75 + \text{[water mark]}$

5. $\text{[water mark]} + 4 + 6$

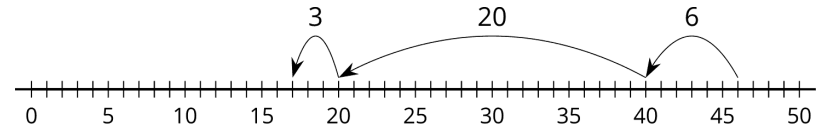
4. Lin's foot is 8 cubes long.
Her father's foot is 17 cubes long.
How many cubes shorter is Lin's foot than her father's foot?
Show your thinking using drawings, numbers, words, or equations.

5. Han made this bar graph showing the number of songs Elena and Noah listened to on Saturday.



- How could Han improve the diagram?
- If Noah listened to 7 songs, how many songs do you think Elena listened to? Explain your reasoning.

6.



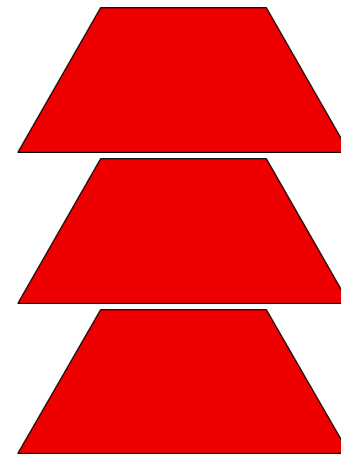
- Write a story problem that can be solved with this number line.
- Explain how the number line solves your story.

7. Here is how Jada found the value of $741 + 179$.

$$\begin{aligned}741 + 9 &= 750 \\750 + 100 &= 850\end{aligned}$$

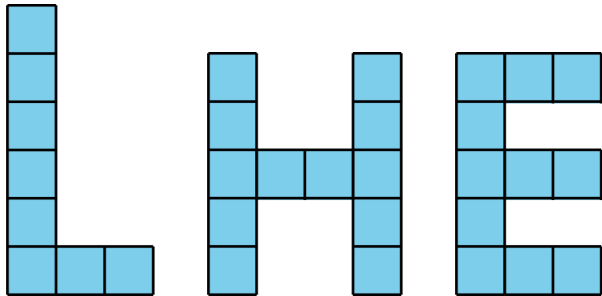
- Explain Jada's error.
- Correct Jada's work and find the value of $741 + 179$.

8. Here are some pattern blocks.



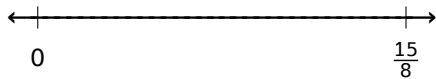
How many corners are there all together on the pattern blocks? Explain or show your reasoning.

9. Lin, Han, and Elena made letters from squares. Put the letters in order from least area to greatest area. Explain your reasoning.

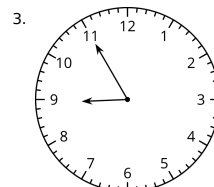
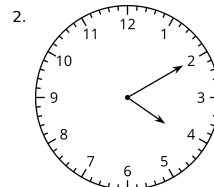
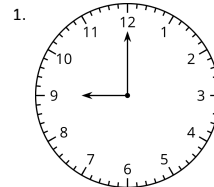


10. The height of the Empire State Building in New York City is 443 meters. The tallest building in the world is 830 meters. How many meters taller than the Empire State Building is the tallest building in the world?

11. Han says that he can find 1 on the number line without finding $\frac{1}{8}$. What might Han's method be?



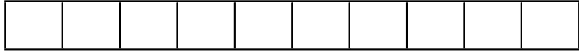
12. Write the time shown on each clock.



13. a) The entire diagram represents 1 whole. What fraction does the shaded portion represent? Explain your reasoning.



- b) Shade this diagram to represent $\frac{2}{10}$.



14. a) Diego says he shaded $\frac{10}{20}$ of the diagram. Do you agree with Diego? Explain your reasoning.



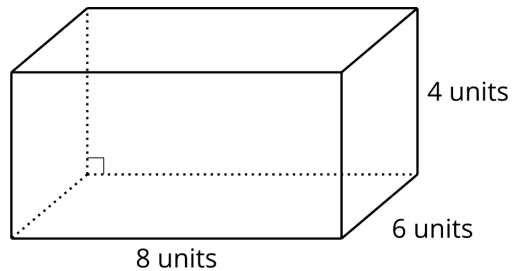
- b) Shade $\frac{18}{24}$ of the diagram. Explain how you know $\frac{18}{24}$ is shaded.



15. a) Count by 10,000 starting at 6,500 and stopping at 66,500. Record each number:
b) Pick two numbers from your list and write their names in words.

16. Draw each shape and all the lines of symmetry you can find in it.
- rectangle
 - rhombus
 - square

17. Andre and Clare used different strategies to find the volume of this rectangular prism.



- a) Andre says the volume of this rectangular prism is 8×24 cubic units. Explain or show why Andre is correct.
- b) Clare says the volume of the rectangular prism is 6×32 cubic units. Explain or show why Clare is also correct.

18. a) A regular sheet of paper is $8\frac{1}{2}$ inches wide and 11 inches long. How many times would you need to fold the sheet of paper in half before the area is less than 1 square inch? Explain or show your reasoning.
- b) A piece of chart paper is 23 inches wide by 33 inches long. How many times would you need to fold it in half before its area is less than 1 square inch?

19. Clare has a strategy for multiplying a number by 99. To find 648×99 she calculates 648×100 and then subtracts 648.

- a) Use Clare's strategy to calculate 648×99 .
- b) Use the standard algorithm to calculate 648×99 .
- c) Which strategy did you prefer? Why?

20. a) Mai says that 7×0.4 and 7×0.04 both have the same value. She says that they are both 28. Do you agree with Mai? Explain or show your reasoning.
- b) Explain why $8 \times 0.03 = (8 \times 3) \times 0.01$.