

NAME _____

DATE _____

Countdown: 4 Weeks

SCORE _____

1. Oscar figured out a way to multiply 34×18 using the Distributive Property and subtraction rather than addition. Oscar's idea is to multiply 34 by the "easy" number of 20 rather than 18. Then, to make up for adding 2 to 18 to make 20, Oscar will subtract 34 times 2 from the total. Fill in the blanks to show Oscar's method. 4.NF.5

THINK SMART FOR SPAC
On the actual test, you may drag items to show your answer. In this book, you will use your pencil to write in the items.

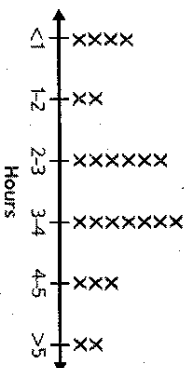
$$34 \times 18 = (34 \times 20) - (34 \times \underline{2})$$

$$= (\underline{680}) - (\underline{68})$$

$$= \underline{612}$$

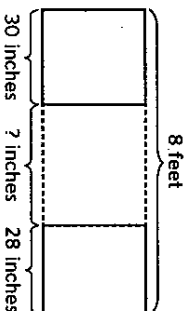
2. Sundip conducted a survey to see how much time each classmate spends per week playing video games. Use Sundip's data to create a line plot. Make sure you include a scale for your line plot. 4.MD.4

Less than 1 hr	1 to 2 hrs	2 to 3 hrs	3 to 4 hrs	4 to 5 hrs	More than 5 hrs
4	2	6	7	3	2



3. Ned is building a wooden table. The table top has three sections and a total width of 8 feet. Ned has made the two outer pieces that measure 30 inches and 28 inches in width. How wide should the middle section be? Explain. 4.MD.1, 4.MD.2

38 inches: The entire width is $8 \times 12 = 96$ inches. The 2 outer pieces have a sum of $30 + 28 = 58$ inches. So, total — known pieces = unknown piece, or $96 - 58 = 38$ inches.



4. Which of the following is equivalent to 9 pints? Select all that apply. 4.NF.5

- 172 fluid ounces 1 gallon and 12 fluid ounces
- 3 quarts and 6 cups 1 gallon and 1 pint

5. Without shoes, Morgan steps on a scale and weighs exactly 65 pounds. Morgan puts on a pair of sneakers and holds a basketball that weighs 23 ounces. Now she weighs $68\frac{1}{4}$ pounds. How much does each shoe weigh? Show your work. 4.MD.2

Use guess and check:

$$68\frac{1}{4} - 65 = 3\frac{1}{4} \text{ pounds} = 52 \text{ ounces of extra weight}$$

$$x + x + 23 = 52$$

$$12 + 12 + 23 = 47 \text{ [too low]}$$

$$15 + 15 + 23 = 53 \text{ [close, but too high]}$$

$$14 + 14 + 23 = 51 \text{ [close, but too low]}$$

$$14\frac{1}{2} + 14\frac{1}{2} + 23 = 52 \text{ [correct]}$$

So each shoe weighs $14\frac{1}{2}$ ounces.