



# INTEGER OPERATIONS

## ANSWER KEY

### EXTENDED LEARNING

1. The table shows the number of yards gained due to plays or penalties in each play of the Houston Texans' fifth possession of the ball in the 2020 Week 17 Houston Texans vs Tennessee Titans game. If yards are lost during a play, the number is recorded as a negative number.

PLAY	1	2	3	4	5	6	7	8	9	10	11
YARDS GAINED	12	-2	8	14	6	5	3	7	0	2	0

The net yards gained is calculated by determining the sum of the yards gained for each play of the possession. Calculate the net yards for the fifth possession.

**55 Net Yards**

2. The Houston Texans this past year, there was a winter storm that dropped temperatures in Houston to below freezing for an average temperature of  $-20$  degrees. The average temperature in Houston during the Houston Texan's season is  $78$  degrees. What is the difference between the historically low temperature during the Winter Storm in Houston vs the average Houston temperature during the football season?

**$78 - -20$**   
**98 degrees difference**



The Stats Challenge curriculum was developed by educators at Region 4 in conjunction with the Houston Texans



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3. If the opposing team's quarterback is tackled by a defensive player on the Houston Texans while the quarterback still has possession of the football, it is called a sack. In the 2020 season the average yards gained by the opposing team to the nearest integer when The Houston Texans sacked the opposing team's quarterback in the Week 12 game Vs The Jacksonville Jaguars is -3 yards. This means that the team loses 3 yards on average each time their quarterback is sacked. If this average continues, what will be the average yards gained/lost by the opposing team due to sacks if the team sacks their quarterback 4 times in a game?

$$4(-3 \text{ yards})$$

$$-12 \text{ yards}$$

4. On a typical gameday, the kitchen at NRG stadium prepares 8,000 hot dogs. Two hundred hot dogs are discarded for quality reasons each game. The kitchen records a loss of -\$600 for each game due to discarding these hot dogs. What is the loss for each hot dog?

$$\frac{-\$600}{200} = -\$3$$

There is a loss of \$3 for every hot dog discarded

### ENRICHMENT

The *Ball Possession and Drive Chart* from each Stats Report includes the net yards that the team has gained or lost at the end of each possession. Choose a Stats Report and study the chart. What was the total number of net yards for the Houston Texans? For the opposing team?



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