

ADD AND SUBTRACT INTEGERS

APPLICATIONS

NEGATIVE NUMBERS

Q1. Bull is a football fullback. Sometimes he gains yardage (+5 means a five-yard gain). Sometimes he loses yardage (-8 means an eight-yard loss).

(a) Determine Bull's total yardage in each of these games.

- Game 1: +3, +5, +6, +1, +13
 Game 2: -2, -6, -1, -2, -4
 Game 3: -4, +4, -3, +3, +10, -13
 Game 4: -5, +3, +6, -2, +8, -6, +9, -1
 Game 5: +6, -7, -5, +10, -3, -8, +5, -10, +8



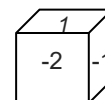
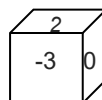
(b) In game 6, Bull's total yardage was -16 yards for 8 carries. Show how this is possible if the yardage for each carry was different.

(c) In the final game, Bull's first seven carries were $-3, +6, +4, -3, -7, +3, -2$. How much would he have to gain on his eighth carry to have a positive total?







Q2. Tony made two 6-sided dice with these numbers on each of them:

$-3, -2, -1, 0, 1, 2$

Suppose the pair of dice is tossed.



The diagram below shows three ways of getting a sum of 2.

1 st die	2 nd die
	 $0 + 2$
	 $2 + 0$
	 $1 + 1$

List one way to get a sum of: (a) -4 (b) 0

ANSWERS

Q1. (a) +28, -11, -3, +12, -4
(b) +3

Q2.(a) -2 and -2, -1 and -3
(b) -2 and 2, -1 and 1