Add directed numbers

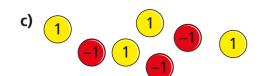


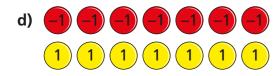


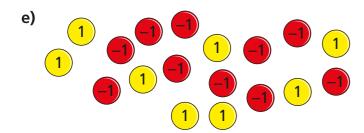
What is the total value of each set of counters?



b) 1 1 1 1 1 1









Complete the calculations using counters.



Complete the calculations. Use counters to help you.

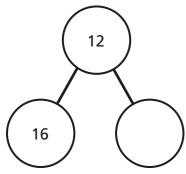
Use the counters to help you work out -2 + -6



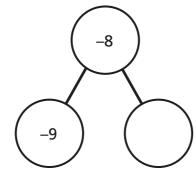
- Complete the calculations.
 - a) 8 + 3 =
 - -8 + -3 =
 - 3 + -8 =
 - -3 + -8 =

- **b)** 6 = 7 +
 - -6 = 7 +
 - 6 = -7 +
 - -6 = -7 +
- Complete the part-whole models.

a)



b)



- Work out the missing numbers in these statements.
 - a) 4 + -9 = 2 +
- c) 9 + -4 = -7 +
- b)
- = -9 + -4
- a) Complete the calculation.

Show your workings.

b) Work out the calculations.

In a quiz, you receive 7 points for a correct answer and –4 points for an incorrect answer.



There are 20 questions in total.

Is it possible to get a score of –11 in this quiz? _____ Explain your answer.

Simplify the expressions by collecting like terms.

a)
$$6m + -10m \equiv$$

b)
$$-6m + -10m \equiv$$

c)
$$-6m + 10m \equiv$$

d)
$$-6m + -10m + 12m \equiv$$

e)
$$6m + -10m + -17m \equiv$$

f)
$$-6m + 10m + -24m \equiv$$