# **Directed Number and Percentage of Amounts**

Year 7

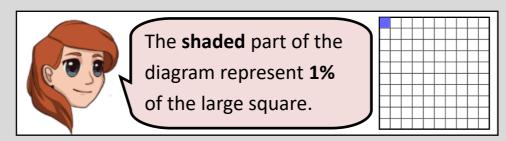


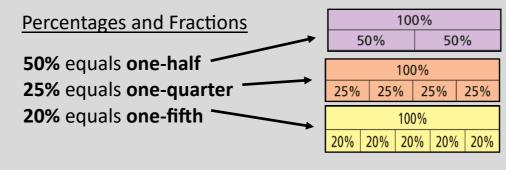




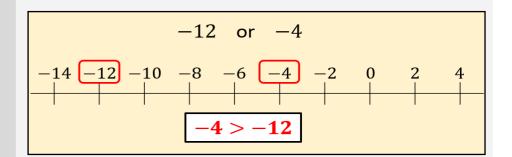
(1) Key Terms	
Percentage	The number of parts per hundred.
Directed Numbers	Numbers that can be negative or positive.
Negative Numbers	Numbers less than zero.
Zero pairs	Two numbers that add together to equal zero. For example, +1 and -1 equal zero.
Evaluate	Calculate the value of an expression.

### (2) Percentage of an amount





### (3) Order Directed Number



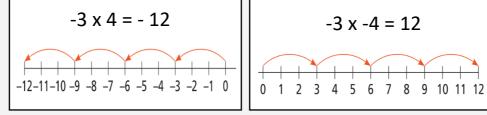
The number line shows that -4 is greater than -12.



### (4) Add and Subtract Directed Numbers

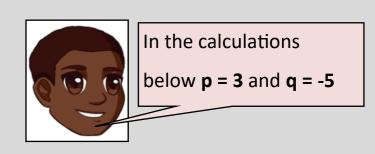
# Show 4 + (-7) = -3 \$\frac{1}{1} \frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}

### (5) Divide and Multiply Directed Numbers



Calculations with a positive answer	Calculations with a negative answer
-5 × -4	-8 ÷ 2
11 × 17	10 × −5
-132 ÷ −10	64 ÷ −2

## (6) Substitution with negative numbers



$$p + q = (3) + (-5) = 3 - 5 = -2$$

$$p-q=(3)-(-5)=3+5=8$$

