## 1.5 Pre-Quiz: Multiplication tables

## Mental math - no calculators

- 1. Perform the calculation.
- 3.OA.7 Fluently multiply and divide within 100

(a) 
$$2 \times 3 =$$

(d) 
$$1 \times 8 =$$

(b) 
$$4 \times 5 =$$

(e) 
$$6 \times 2 =$$

(c) 
$$7 \times 9 =$$

(f) 
$$9 \times 4 =$$

2. Find each quotient. 3.OA.7 Use the relationship between multiplication and division

(a) 
$$16 \div 2 =$$

(d) 
$$72 \div 8 =$$

(b) 
$$36 \div 6 =$$

(e) 
$$18 \div 9 =$$

(c) 
$$24 \div 3 =$$

(f) 
$$30 \div 5 =$$

3. Convert between fractions and percentages.

(a) 
$$\frac{1}{2}$$
 =

(d) 
$$20\% =$$

(b) 
$$\frac{2}{5} =$$

(e) 
$$25\% =$$

(c) 
$$\frac{2}{3}$$
 =

(f) 
$$33\frac{1}{3}\% =$$

4. Simplify the expression by combining like terms.

(a) 
$$1x + 5x =$$

(d) 
$$-3y + 9y - 6y =$$

(b) 
$$14y - 7y =$$

(e) 
$$4x^2 - 6x^2 =$$

(c) 
$$9z - 8z + z =$$

(f) 
$$7y^2 + 12y^2 =$$

5.	Use the function $f(x) = -2x - 8$ to answer the questions. F.IF.4 Interpret functions (a) What is $f(0)$ ?
	(b) Find $f(\frac{1}{2})$
	(c) Find $f(-3)$
	(d) What is $x$ when $f(x) = -10$ ?
6.	Fill in the blanks to continue the patterns.
	(a) 1, 3, 5,, (c) 81, 27, 9,,
	(b) $2, 4, 8, \dots, (d) -2, -5, -8, \dots, \dots$
7.	Here are three patterns with their first 5 terms listed. For each pattern, describe a way to produce each new term from the previous term.
	(a) Pattern A: 4, 7, 10, 13, 16,
	(b) Pattern B: 16, 8, 4, 2, 1,
	(c) Pattern C: $3, -6, 12, -24, 48, \dots$
8.	Beginning with the first term of zero, write down the first 5 terms of an arithmetic

sequence with a constant difference of 5.