

1.7 Quiz: Multiplication tables

Mental math - no calculators

1. Perform the calculation.

3.OA.7 Fluently multiply and divide within 100

(a) $3 \times 4 =$

(d) $5 \times 8 =$

(b) $6 \times 7 =$

(e) $6 \times 9 =$

(c) $9 \times 2 =$

(f) $7 \times 7 =$

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

(a) $15 \div 3 =$

(d) $64 \div 8 =$

(b) $42 \div 7 =$

(e) $36 \div 6 =$

(c) $27 \div 9 =$

(f) $35 \div 5 =$

3. Convert between fractions and percentages.

(a) $\frac{1}{4} =$

(d) $66\frac{2}{3}\% =$

(b) $\frac{1}{3} =$

(e) $75\% =$

(c) $\frac{4}{5} =$

(f) $40\% =$

4. Simplify the expression by combining like terms.

(a) $2x + 6x =$

(d) $-4a + 10a - 8a =$

(b) $10y - 5y =$

(e) $3x^2 - 5x^2 =$

(c) $7w - 6w + 2w =$

(f) $5y^2 + 8y^2 =$

5. Use the function $f(x) = 5x - 10$ to answer the questions.

(a) What is $f(3)$?

(c) What is x when $f(x) = 10$?

(b) Find $f(-1)$

6. Fill in the blanks to continue the patterns.

(a) 16, 8, 4, _____, _____

(c) 56, 76, 96, _____, _____

(b) 2, 4, 6, _____, _____

(d) -1, -3, -9, _____, _____

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: 6, 9, 12, 15, 18, ...

(b) Pattern B: -1, -2, -4, -8, -16 ...

(c) Pattern C: -7, -18, -29, -40, -51, ...

8. Beginning with the first term of 4, write down the first 5 terms of an arithmetic sequence with a constant difference of -3.