1. Divide.

$(x^2 - 13x + 40) \div (x - 5)$

$(x^2 - 13x + 40) \div (x - 5) =$ _____

2. Multiply.

$(m + 11n)^2$

$(m + 11n)^2 =$ _____
(Simplify your answer.)

3. Multiply.

$(x + 2)(x + 7)$

$(x + 2)(x + 7) =$ _____
(Simplify your answer.)

4. Simplify.

$(2x^7)^2(6x^6)$

$(2x^7)^2(6x^6) =$ _____
(Simplify your answer. Use positive exponents only.)

5. Multiply.

$(x + 7)(x - 4)$

$(x + 7)(x - 4) =$ _____
(Simplify your answer.)

6. Subtract.

$(4a^3 + a - 8) - (2 - 8a^3 - 6a^2)$

$(4a^3 + a - 8) - (2 - 8a^3 - 6a^2) =$ _____ (Simplify your answer.)

7. Express the number in decimal form (without exponents).

6.16×10^6

The answer is _____.

8. Add.

$(3x^2 - 7x + 15) + (2x^2 + 9x - 45)$

The answer is _____.
(Simplify your answer.)

9. Express the following number in decimal notation.

3.47×10^{-6}

3.47×10^{-6} = _____

10. Find the quotient.

$$\frac{10w^8p^9 - 14w^6p^7 + 18w^3p^4}{2w^3p}$$

The quotient is _____.

11. Express the number 0.000722 in scientific notation.

0.000722 = _____
(Use scientific notation. Use the multiplication symbol in the math palette as needed.)

12. Multiply.

$(x + 13)(x - 13)$

$(x + 13)(x - 13)$ = _____
(Simplify your answer.)

13. Simplify. Do not use negative exponents in the answer.

$$\frac{20x^{-2}y^3z^8}{15x^5y^{-7}z^{-3}}$$

$\frac{20x^{-2}y^3z^8}{15x^5y^{-7}z^{-3}}$ = _____
(Simplify your answer. Use integers or fractions for any numbers in the expression. Use positive exponents only.)

14. Express the following number in scientific notation.

5,700,000

5,700,000 = _____
(Use the multiplication symbol in the math palette as needed.)

15. Multiply using the rule for the square of a binomial.

$(x - 11)^2$

$(x - 11)^2$ = _____