

ALGEBRA HOMEWORK ACTIVITY PACK

11
PACKS

for GCSE Foundation Maths

Factorising Quadratic Expressions Home Learning

1. Fully factorise each expression.

a. $x^2 + 10x + 21$

b. $x^2 - 20x + 100$

Simplifying Algebraic Fractions Home Learning

1. Simplify each fraction as fully as possible.

a. $\frac{12}{15}$

b. $\frac{18}{24}$

c. $\frac{15}{20}$

d. $\frac{12}{18}$

e. $\frac{18}{24}$

f. $\frac{20}{25}$

g. $\frac{25}{30}$

h. $\frac{30}{35}$

2. Simplify each fraction as fully as possible.

a. $\frac{12x}{15}$

b. $\frac{18x}{24}$

c. $\frac{15x}{20}$

d. $\frac{12x}{18}$

e. $\frac{18x}{24}$

f. $\frac{20x}{25}$

g. $\frac{25x}{30}$

h. $\frac{30x}{35}$

Solving Equations Involving Algebraic Fractions Home Learning

1. Simplify

a. $\frac{1}{2} + \frac{1}{3}$

b. $\frac{1}{4} - \frac{1}{5}$

Solving Linear Equations with an Unknown on Both Sides Home Learning

Remember:

- Always use brackets and expansion to solve equations.
- Always double check your answer by substituting the numbers back in to the original equation.
- If your answer isn't an integer, leave it as a fraction.

1. Solve the following equations.

a. $3x + 4 = 10$

b. $2x + 14 = 2x + 7$

c. $x + 5 = 2x + 3$

d. $2x + 11 = 3x + 2$

e. $4x - 2 = 3x + 5$

f. $2x + 15 = 3x + 4$

g. $3x + 4 = 2x + 2$

h. $3x + 14 = 2x + 6$

2. Solve the following equations.

a. $2x + 12 = 3x + 7$

b. $\frac{1}{2}x + 3 = 2$

c. $3x + 4 = 2x + 10$

d. $\frac{1}{3}x + 2 = 10$

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Answer Included

Gcse Maths Homework Pack

Michael Rajnik



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