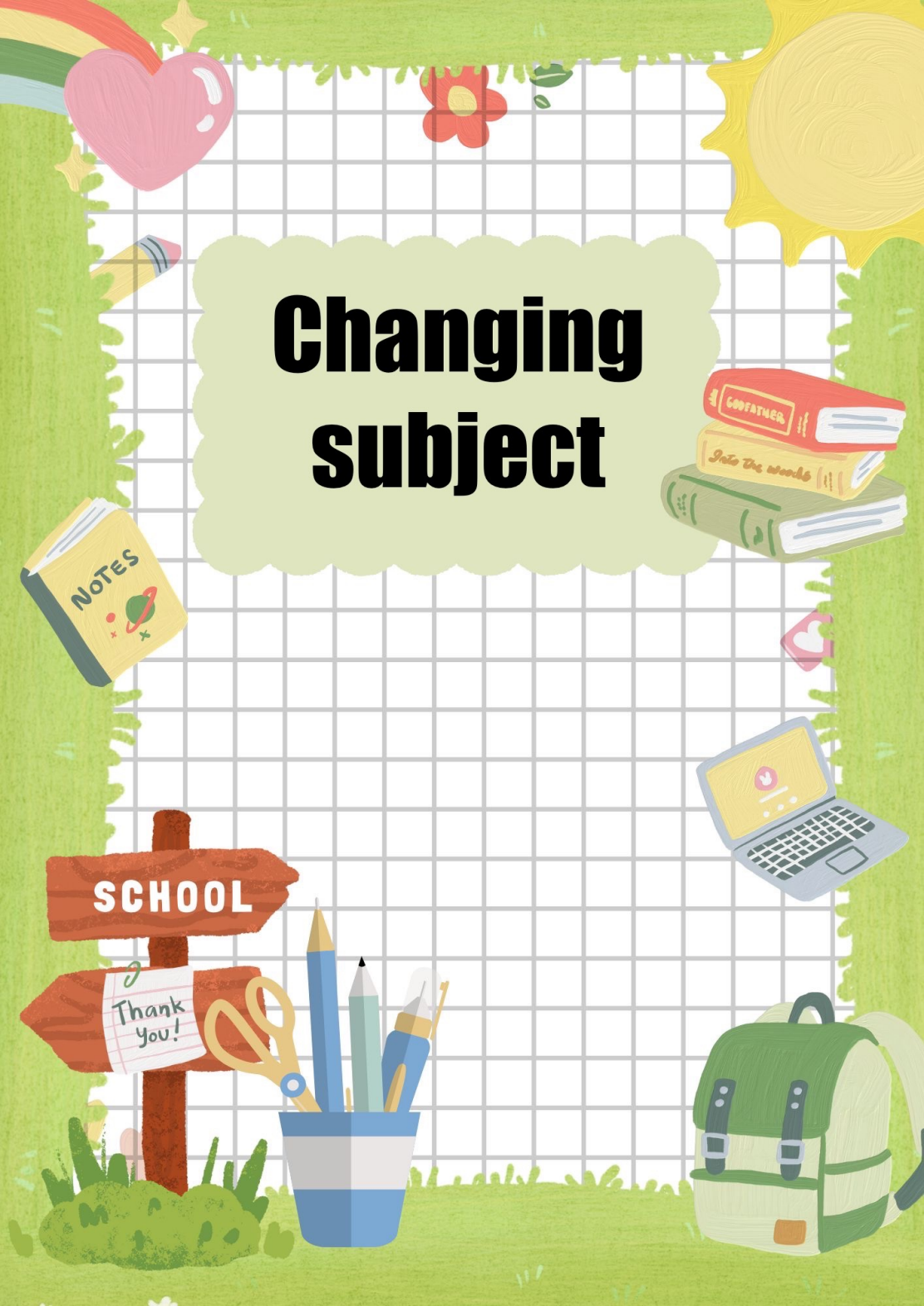


Changing subject



NOTES

GODFATHER

Into the woods

SCHOOL

Thank You!

1. Make b the subject of $a = \sqrt{\frac{3b+5}{b-d}}$

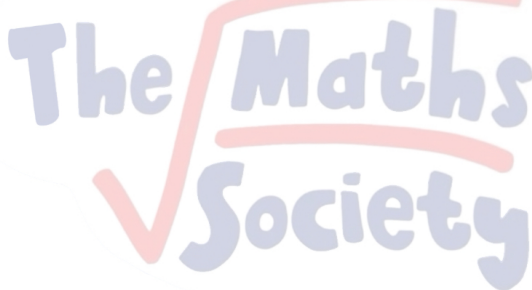
$$a^2 = \frac{3b+5}{b-d}$$

$$a^2b - a^2d = 3b+5$$

$$a^2b - 3b = 5 + a^2d$$

$$b(a^2 - 3) = 5 + a^2d$$

$$b = \frac{5 + a^2d}{a^2 - 3}$$



2. Make h the subject of $2(h - 6) = 4g + 2$

$$h - 6 = 2g + 1$$

$$h = 2g + 1 + 6$$

$$h = 2g + 7$$

3. Make u the subject of

$$s = ut + \frac{1}{2}at^2$$
$$ut = s - \frac{1}{2}at^2$$
$$u = \frac{s - \frac{1}{2}at^2}{t}$$
$$= \frac{s}{t} - \frac{1}{2}at \leftarrow$$

4. Make x the subject of $y = tx + 4y^2$

$$tx = y - 4y^2$$
$$x = \frac{y - 4y^2}{t}$$

5. Make x the subject of the formula $y = 5 + \frac{3x+4}{7-x}$
Give your answer in its simplest form.

$$y = 5 + \frac{3x+4}{7-x}$$

$$y - 5 = \frac{3x+4}{7-x}$$

$$(y-5)(7-x) = 3x+4$$

$$7y - xy - 35 + 5x = 3x + 4$$

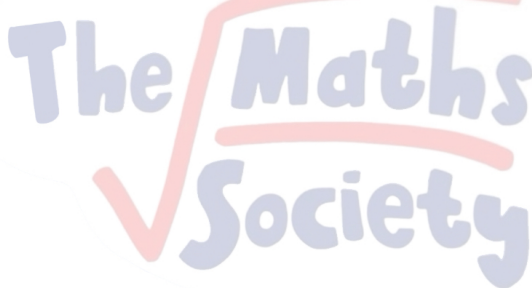
$$-2x + 4 = 7y - 35 - xy$$

$$-2x + xy = 7y - 35 - 4$$

$$-2x + xy = 7y - 39$$

$$x(-2 + y) = 7y - 39$$

$$x = \frac{7y-39}{-2+y}$$



6. Make a the subject of the formula $B = ac + de$

$$B - de = ac$$

$$a = \frac{B-de}{c}$$