

ANSWERS FOR SIMPLIFYING EXPRESSIONS FROM W/C 22nd June
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1.
 - a) $2x$
 - b) x^2
 - c) $9x$
 - d) $9x^2$
 - e) $8x^2y^3$ (can add them because they are both like termsboth x^2y^3)
 - f) $4x^3y^4$ (same as $x \times x \times y$ multiplied by $4 \times x \times y \times y$ giving $4 \times x \times x \times y \times y \times y$)

2.
 - a) $x + 2y$
 - b) $8x + 5y$
 - c) $3y - x$ (This is the same as $-x + 3y$)
 - d) $4p + 3q$

3.
 - a) $7x + 7y$
 - b) $25x + 8y$
 - c) $13x + 7y$
 - d) $-2d$ (remember the sign in front of each term belongs to the term $4c -4c=0c$)
 - e) $5q - 10p$ (or $-10p + 5q$ Remember also $-4 \times -q$ gives $+4q$)
 - f) $14x - 5y$
 - g) $12y - 24x$ (or $-24x + 12y$) (Remember $-3 \times -6y = +18y$)

4.
 - a) $22 - 36p$ (or $-36p + 22$ watch those double negatives again $-5 \times -2 = +10$)
 - b) $33x + 50$ careful $-(3x - 8) = -3x + 8x$ subtract everything in the bracket

5.
 - a) $8pq$
 - b) $2x - y$

6.
 - a) $9a + b$
 - b) $2x^4$

7.
 - a) $2y + 2x$
 - b) This is a trick question as you can't simplify as not like terms...we could multiply but not add!

8. a) a^6 (think of it as $a \times a \times a \times a \times a \times a$)
b) $45x^4y^6$

9. a) $10e - 3d$
b) $4x^2$
c) $-3t - 4d$
d) $15gd$

10. $3(p+p)$ and $4p + 2p$ should have been ticked

How did you do?

Give yourself 1 mark for each correct answer – in an exam you would get a mark for each correct term so this is a little mean but makes it simpler and easier for me to see if you have understood or not. **It is out of 33**

Remember the sign must be correct too and in front of the correct term

$3x - y$ is the same as $-y + 3x$ but **NOT** the same as $y - 3x$