Name:

Exam Style Questions

Algebraic Notation

Corbettmaths

Equipment needed: Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 19

Answers and Video Solutions

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1. Circle the expression that means 8 more than y

$\frac{y}{8}$ $\quad y-8 \quad$ $8y$ $\quad y+8$

(1)

2. Circle the expression that is three times larger than x

$3x$ $\quad x+3 \quad$ x^3 $\quad 3+x$

(1)

3. Circle the expression that means c divided by d

$\frac{d}{c}$ $\quad cd \quad$ $\frac{c}{d}$ $\quad c-d$

(1)

4. Circle the expression that can be written as w^2

$2 \times w$ $\quad w \times w \quad$ $\frac{w}{2}$ $\quad w+w$

(1)

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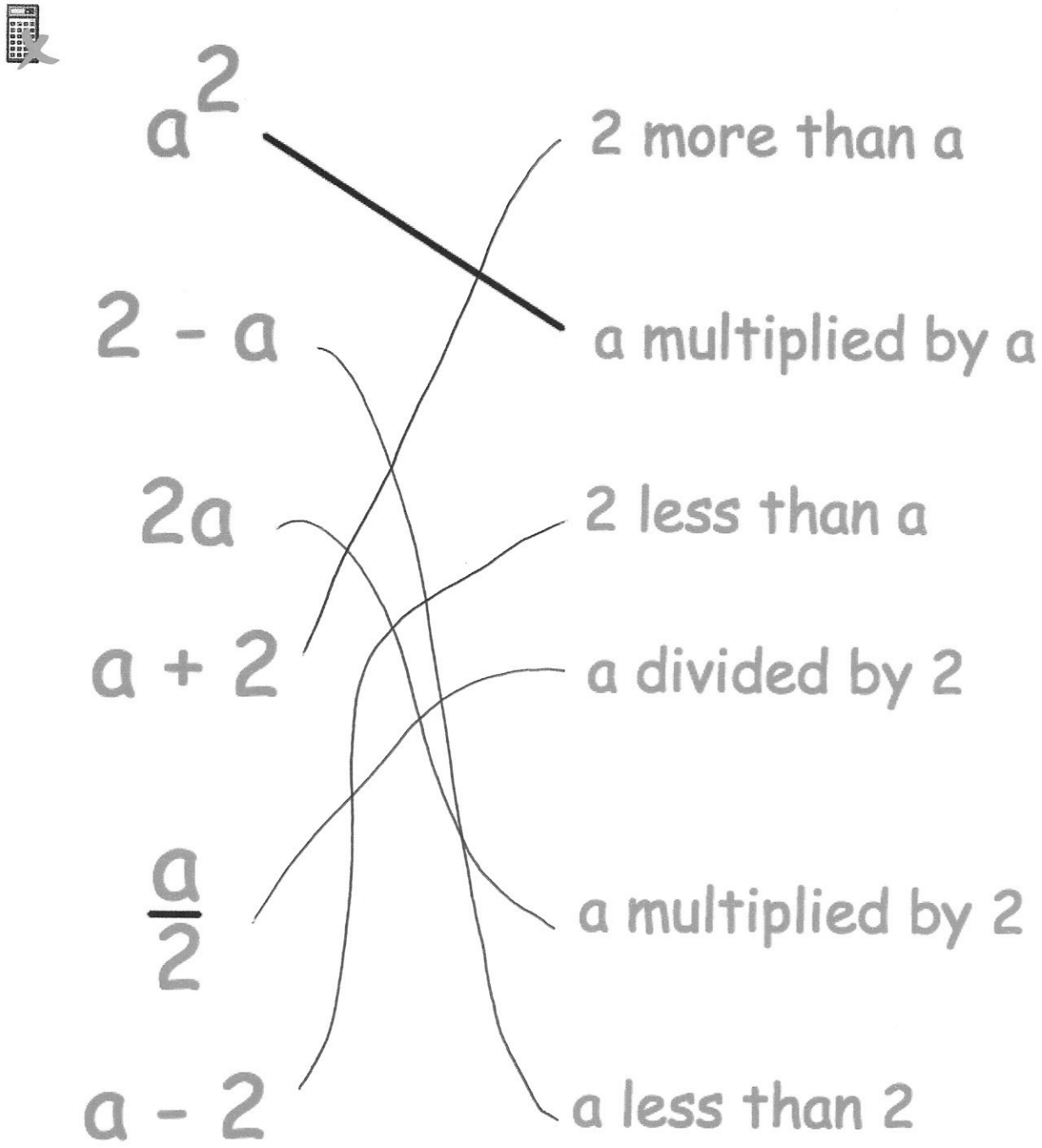
5. Match each expression to its definition.



(4)

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6. Write down an algebraic expression for each of the following.

(a) 4 more than y

$y + 4$

(1)

(b) 3 less than p

$p - 3$

(1)

(c) 3 multiplied by y

$3y$

(1)

(d) 2 divided by a

$\frac{2}{a}$

(1)

(e) p multiplied by m

mp

(1)

(f) c divided by a

$\frac{c}{a}$

(1)

(g) c taken away from m

$m - c$

(1)

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7. Explain the meaning of each of these expressions.

(a) 4y

4 multiplied by y

(1)

(b) y^2

y squared (y multiplied by y)

(1)

(c) 7 – s

7 subtract s

(1)

(d) xy

x multiplied by y

(1)

(e) b – a

b subtract a

(1)

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8. w is 2 less than y

Circle the equation

$w = \frac{y}{2}$ $\quad$ $w = y - 2$ $\quad$ $w = y + 2$ $\quad$ $w = 2y$

(1)

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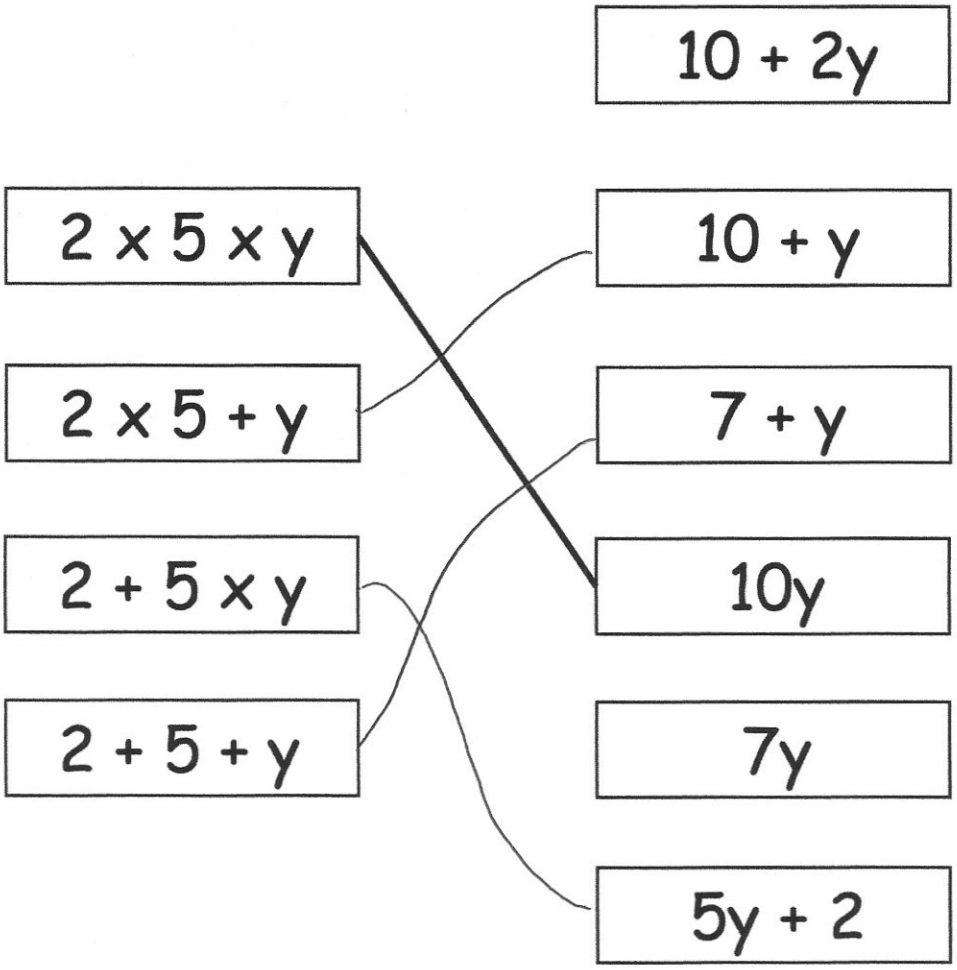
9. Match the expressions.



(3)

10. Lewis has been asked to write an algebraic expression to represent 5 less than the square root of x.

His answer is $\sqrt{x-5}$

Explain his mistake.

The subtract 5 should not be under the square root.

$\sqrt{x} - 5$

(1)

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11. In a furniture shop, a table comes with six chairs.

Which of the formulae below connects the number of tables, T, and the number of chairs, C?

Formula 1: $C = T + 6$

Formula 2: $C = 6T$

Formula 3: $T = 6C$

Formula 4: $T = C + 6$

If you multiply the number of tables by 6, you will find the number of chairs

Formula 2

(1)

12. Match each statement to the correct expression.

Multiply c by 2 then add 1	$2c + 1$
Square c then add 1	$c^2 + 1$
Add 1 to c then multiply by 2	$2(c + 1)$
Square c then subtract from 1	$1 - c^2$

$c + 2$

$c^2 - 1$

(4)

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