

BASIC ALGEBRA

GRADE 1

Examination practice questions

You should have:

A ruler, protractor, compasses, a pen, pencil, eraser, calculator.
For some questions, you may need tracing paper.

Instructions

- Use **black** ink or ball-point pen.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**

Information

- The marks for each question are shown in brackets.
- Use the number of marks for each question as a guide as to how much time to spend on each question. As a rough guide, you can multiply the number of marks by 1.2 to see how many minutes you should spend on a question.
- Questions have been carefully compiled from or modelled on a variety of past papers and will generally get more challenging as the document progresses. Some of the latter questions will go beyond the core grade level for this topic.

Advice

- Read each question carefully before you start to answer it.
- Don't forget to have fun.
- Check your answers at the end.

Q1.

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Simplify

$$y + y$$

$$\underline{2y}$$

(1 mark)

Q2.

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Simplify

$$e + e + e$$

$$\underline{3e}$$

(1 mark)

Q3.

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Simplify

$$h + h + h + h$$

$$\underline{4h}$$

(1 mark)

Q4.

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Simplify

$$w + w + w + w - w$$

$$4w - w$$

$$\underline{3w}$$

(1 mark)

Q5.

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Simplify

$$p + p + p - p + p - p$$

$$4p - 2p$$

$$\underline{2p}$$

(1 mark)

Q6.

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Simplify

CAREFUL!
IT ISN'T y^6

$$y^3 + y^3$$

$$\underline{2y^3}$$

(1 mark)

Q7.

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Simplify

$$y^2 + y^2$$

$$\underline{2y^2}$$

(1 mark)

Q8.

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Simplify

$$a + 4a - 2a$$

$$5a - 2a$$

$$\underline{3a}$$

(1 mark)

Q9.

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Simplify

$$t + 5t - 4t$$

$$6t - 4t$$

$$\underline{2t}$$

(1 mark)

Q10.

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Simplify

$$3g + 5g - g$$

$$8g - g$$

$$\underline{7g}$$

(1 mark)

Q11.

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Simplify

$$9e - 2e - 2e$$

$$9e - 4e$$

$$\underline{5e}$$

(1 mark)

Q12.

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Simplify

$$5m - m - m$$

$$5m - 2m$$

$$\underline{3m}$$

(1 mark)

Q13.

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Simplify

$$2m + 3m - m$$

$$5m - m$$

$$\underline{4m}$$

(1 mark)

Q14.

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Simplify

$$2 \times 3a$$

$$6a$$

$$\underline{6a}$$

(1 mark)

Q15.

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Simplify

$$2m \times 3$$

$$\underline{6m}$$

(1 mark)

Q16.

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Simplify

$$4p \times 7$$

$$28p$$

(1 mark)

Q17.

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Simplify

$$5 \times 3g$$

$$15g$$

(1 mark)

Q18.

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Simplify

$$2 \times 3y$$

$$6y$$

(1 mark)

Q19.

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Simplify

$$y \times y \times y$$

$$y^3$$

(1 mark)

Q20.

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Simplify

$$m \times m \times m \times m$$

$$m^4$$

(1 mark)

Q21.

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Simplify

$$p \times p \times p \times p$$

$$p^4$$

(1 mark)

Q22.

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Simplify

$$k \times k \times k \times k \times k$$

$$k^5$$

(1 mark)

Q23.

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Simplify

$$\begin{array}{c} \text{---}2k \times \text{---}5k \times \text{---}k \\ 10k^3 \end{array}$$

$$10k^3$$

(1 mark)

Q24.

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Simplify

$$2k \times 2k \times 3k$$

$$12k^3$$

(1 mark)

