Name:

Exam Style Questions

Order of Operations

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 211

Answers and Video Solutions

1. Calculate

(a) $16 - 5 \times 2$

.....

(1)

(b) $10 - 3^2$

.....

(1)

(c) $5 \times (2 + 3)$

.....

(1)

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2. Work out $40 \div 2 + 3$

.....

(1)

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3. Insert brackets to make this calculation correct.

8 − 1 × 3 = 21

(1)

4. Joey thinks the answer to $16 + 4 \times 2$ is 40

Albert thinks the answer to $16 + 4 \times 2$ is 24

Who is correct?
Explain your answer.

.....

.....

(2)

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5. Calculate

(a) $10 + 3 \times 2$

.....

(1)

(b) $8 \div 2 + 12 \div 4$

.....

(2)

(c) $3 \times 10 \div 5 - 1$

.....

(2)

6. An estate agent is paid a weekly wage of £750 **plus** a bonus of £100 for each house sold.

Last week, the estate agent sold two houses.
Their pay is found by working out $750 + 100 \times 2$

Taniya thinks that the pay will be £1700

Explain why Taniya is wrong.

.....

.....

(2)

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7. Calculate

(a) $6 + 6 \div 3$

.....

(1)

(b) $8 + 3(5 - 1)$

.....

(2)

(c) $9 \times 2 + 20 \div 2$

.....

(2)

8. Put brackets in the following statements to make them true

(a) $6 \times 7 + 3 - 8 = 52$

(1)

(b) $4 + 3 \times 7 - 1 = 42$

(1)

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9. Work out

(a) $14 + 12 \div 2$

.....

(1)

(b) $6 \times 4 - 7 \times 3$

.....

(2)

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10. Work out $3 + 9 \times (7 - 2)$

.....

(2)

11. Work out

(a) $2^3 + 3^2$

.....

(2)

(b) $2^2 \times 3^3$

.....

(2)

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12. Insert brackets to make this calculation correct.

$$7 + 9 - 4 \div 2 = 6$$

(1)

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13. Insert brackets to make the correct answer.

$$5 + 4 \times 2 + 7 = 41$$

(1)

14. Work out

(a) $(2 + 5)^2$

.....

(1)

(b) $5 + 3 \times 6$

.....

(1)

(c) $22 - 14 \div 2$

.....

(1)

(d) $(9 + 4) \times (100 \div 25)$

.....

(2)

(e) $7 \times 5 - 10$

.....

(1)

15. Work out

(a) $4 \times (3 + 17)$

.....

(1)

(b) $10 - 2 \times 5$

.....

(1)

(c) $50 - 2^3 \times 4$

.....

(2)

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16. Work out $18.6 - 1.6 \times 5$

.....

(2)

17. Work out $\sqrt{81} - (9 - 7) \times 3$

.....

(3)

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18. Work out $\sqrt[3]{1000} - (11 - 3 \times 2)^2$

.....

(3)

19. Work out $(513 \div 3) + (21 \times 13)$

.....

(3)

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20. Given

$a = 11 - 3^2$ $\quad$ $b = \dfrac{60}{2+3}$ $\quad$ $c = 18 - 3 \times 2 + 1$

Work out the value of $a + b + c$

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(4)