# Quick paper C16

Paper 3 style · Calculator · Foundation

**18** marks
about 15–20 minutes

| Name | Date | Score / 18 |
|---|---|---|
| | | |

**Answer ALL questions.** Write your answers in the spaces provided. You must write down all the stages in your working. You may use a calculator. Diagrams are **NOT** accurately drawn unless it says so.

**Help on the longer questions**

**Underlined words** tell you what the question wants.

**Remember** reminds you of a fact you need.

**1** **Write** 35% as a decimal.

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**(1)**

**(Total for Question 1 is 1 mark)**

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**2** **Write down** two factors of 21

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**(1)**

**(Total for Question 2 is 1 mark)**

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**3** What is the time 2 hours 35 minutes after 7.45 am?

..... am

**(1)**

**(Total for Question 3 is 1 mark)**

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**4** **Work out** $\frac{1}{7}$ of 84

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**(1)**

**(Total for Question 4 is 1 mark)**

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**Turn over ►**

**5**

**Remember** Collect like terms: the same letter (and power) together. Watch the sign in front of each term.

**(a)** **Simplify** $p \times q \times 3$

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**(1)**

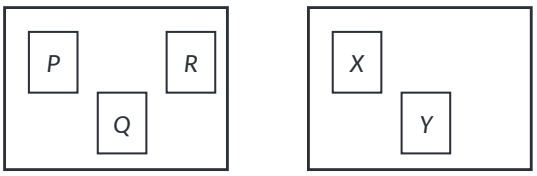
**(b)** **Simplify** $5y + 2 - 2y + 6$

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**(2)**

**(Total for Question 5 is 3 marks)**

**6** There are three cards in bag **A** and two cards in bag **B**.
There is a letter on each card.




**Bag A** **Bag B**

Nia takes a card from bag **A** and then a card from bag **B**.
**List** all the possible outcomes.

**(2)**

**(Total for Question 6 is 2 marks)**

**7** On Monday, Lucy pays for 3 concert tickets, 2 nights in a hotel and 3 meals.

| | dollars |
|---|---|
| each concert ticket | 450 |
| each night in a hotel | 95 |
| each meal | 30 |

**Show that** Lucy pays more than 1500 dollars on Monday.

> **Remember** Write down each cost or amount as you work it out, then add them up. Write money with 2 decimal places (£4.50). 100p = £1.

**(3)**

**(Total for Question 7 is 3 marks)**

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**8** Zara has 60 bags.
The bags are only red, only blue or only black.

34 of the bags are leather.
6 of the 15 blue bags are leather.
7 of the 18 red bags are **not** leather.

Use this information to complete the two-way table.

| | Red | Blue | Black | Total |
|---|---|---|---|---|
| **Leather** | | | | |
| **Not leather** | | | | |
| **Total** | | | | |

> **Remember** Rows and columns add up to the totals. Fill in the easy gaps first, then use them to find the rest.

**(3)**

**(Total for Question 8 is 3 marks)**

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**9** Dev has £250 to spend on games.

Each game costs £6.95

**Work out** the greatest number of games Dev can buy.

> **Remember** Line up the digits. To divide by a decimal, multiply both numbers by 10 (or 100) first. Check with an estimate.

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**(3)**

**(Total for Question 9 is 3 marks)**

**TOTAL FOR PAPER IS 18 MARKS**

# C16 mark scheme

| Q | | Answer | Mark | Notes |
|---|---|---|---|---|
| 1 | | 0.35 | B1 | |
| 2 | | Any two of 1, 3, 7, 21 | B1 | |
| 3 | | 10.20 am | B1 | |
| 4 | | 12 | B1 | |
| 5 | (a) | $3pq$ | B1 | |
| | (b) | $3y + 8$ | B2 | B2 (B1 for $3y$ or $+ 8$) |
| 6 | | PX, PY, QX, QY, RX, RY | B2 | B2 (B1 for at least 3 correct) |
| 7 | | 1350 + 190 + 90 = 1630, which is more than 1500 | M1<br>M1<br>C1 | M1 for $3 \times 450$ or $2 \times 95$ or $3 \times 30$<br>M1 for adding all three<br>C1 for 1630 with conclusion |
| 8 | | Leather: 11, 6, 17, 34<br>Not leather: 7, 9, 10, 26<br>Total: 18, 15, 27, 60 | B3 | B3 all correct (B2 for 6 or more correct, B1 for 4 or more correct) |
| 9 | | 35 | M1<br>M1<br>A1 | M1 for $250 \div 6.95$ (= 35.97…)<br>M1 for rounding down<br>A1 cao |

**B1** = mark for a correct answer · **M1** = method mark · **A1** = accurate answer after M1 · **C1** = reason · **cao** = correct answer only

**Score ____ / 18**



**Write your score on the front page**