



KS3.M-N5 Four Operations with Integers

AQA KS3.M-N5 · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

1 Work out each addition using column method if needed.

(a) $214 + 389$ (1)

(b) $1\,006 + 879$ (1)

(c) $48 + 127$ (1)

(d) $5\,000 + 3\,207$ (1)

2 Work out each subtraction.

(a) $712 - 398$ (1)

(b) $2\,000 - 1\,256$ (1)

(c) $305 - 79$ (1)

3 Multiply using short multiplication where appropriate.

(a) 34×6 (1)

(b) 127×3 (1)

(c) 62×8 (1)

(d) 209×4 (1)

4 Use long multiplication to calculate each product.

(a) 236×14 (3)

(b) 417×23 (3)

5 Work out each division. Give an exact whole-number quotient; if there is a remainder, state it.

(a) $624 \div 8$ (1)

(b) $55 \div 6$ (1)

(c) $2\,401 \div 7$ (1)

6 Divide and give an answer as a mixed number if needed.

(a) $85 \div 12$ (2)

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Question 1

- (a) **B1** 603 cao
- (a) Answer: **603**
- (b) **B1** 1885 cao
- (b) Answer: **1885**
- (c) **B1** 175 cao
- (c) Answer: **175**
- (d) **B1** 8207 cao
- (d) Answer: **8207**

Question 2

- (a) **B1** 314 cao
- (a) Answer: **314**
- (b) **B1** 744 cao
- (b) Answer: **744**
- (c) **B1** 226 cao
- (c) Answer: **226**

Question 3

- (a) **B1** 204 cao
- (a) Answer: **204**
- (b) **B1** 381 cao
- (b) Answer: **381**
- (c) **B1** 496 cao
- (c) Answer: **496**
- (d) **B1** 836 cao
- (d) Answer: **836**

Question 4

- (a) **M1** correct partial product $236 \times 10 = 2360$ shown or equivalent method oe
- (a) **M1** correct partial product $236 \times 4 = 944$ shown or equivalent method oe
- (a) **A1** 3304 cao
- (a) Answer: **3304**
- (b) **M1** correct partial product $417 \times 20 = 8340$ shown or equivalent method oe
- (b) **M1** correct partial product $417 \times 3 = 1251$ shown or equivalent method oe
- (b) **A1** 9591 cao
- (b) Answer: **9591**

Question 5

- (a) **B1** 78 cao
- (a) Answer: **78**
- (b) **B1** 9 remainder 1 cao
- (b) Answer: **9 r 1**
- (c) **B1** 343 cao
- (c) Answer: **343**

Question 6

- (a) **M1** correct whole-number quotient and remainder found or method shown
- (a) **A1** $7 \frac{1}{12}$ cao
- (a) Answer: **7 $\frac{1}{12}$**