EXAM PAPERS PRACTICE

OXFORD

INTERNATIONAL AQA EXAMINATIONS

Topic Test: OxfordAQA International GCSE Mathematics Core

Number

MARK SCHEME

© 2026 Exam Papers Practice. All Rights Reserved

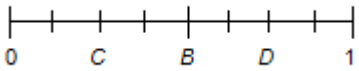
Suitable for Students Sitting for Exams 2027 and Beyond

Other Students from different boards can also find this resource useful

1 (a) $B \rightarrow \frac{1}{2}$

Mark intention

e.g.

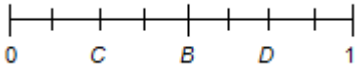


B1

$C \rightarrow \frac{1}{4}$

Mark intention

e.g.

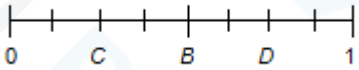


B1

$D \rightarrow \frac{3}{4}$

Mark intention

e.g.



B1

(b) $\frac{9}{12}$ *oe*

M1

$\frac{3}{4}$

SC1 for incorrect fraction fully simplified

SC1 for $\frac{1}{4}$

A1

[5]

2 (a) 53 or 59

B1

(b) 27

B1

(c) **Alternative method 1**

225 or 256 or 289 or 324 or 361 or 400 or 441 or 484

M1

EXAM PAPERS PRACTICE
© 2026 Exam Papers Practice. All Rights Reserved

256 and 324 and 400 and 484
or 16^2 and 18^2 and 20^2 and 22^2
or $\frac{22-14}{2} = 4$

M1dep

(14^2 =) 196

and

(23^2 =) 529 or (24^2 =) 576
with working for M2 seen

A1

Alternative method 2

$\sqrt{200} = 14.1...$
or $\sqrt{500} = 22.3...$ or 22.4

M1

$\sqrt{200} = 14.1...$
and $\sqrt{500} = 22.3...$ or 22.4

M1dep

16 and 18 and 20 and 22

or 256 and 324 and 400 and 484
with working for M2 seen

A1

Alternative method 3

$\sqrt{200} = 14.1...$
allow $\sqrt{201} = 14.1...$ *or* 14.2

M1

256 and 324 and 400 and 484
or 16^2 and 18^2 and 20^2 and 22^2
or $\frac{22-14}{2} = 4$

M1dep

$\sqrt{500} = 22.3...$ or 22.4

or (23^2 =) 529 or (24^2 =) 576
with working for M2 seen
allow $\sqrt{499} = 22.3...$

A1

For more help, please visit www.exampaperspractice.co.uk

Alternative method 4

$\sqrt{500} = 22.3...$ or 22.4

allow $\sqrt{499} = 22.3...$

M1

484 and 400 and 324 and 256

or 22^2 and 20^2 and 18^2 and 16^2

or $\frac{22-14}{2} = 4$

M1dep

$\sqrt{200} = 14.1...$

or

$(15^2 =)$ 225 or $(14^2 =)$ 196

with working for M2 seen

allow $\sqrt{201} = 14.1...$ *or* 14.2

A1

[5]

3 (a) 3.6

B1

(b) 0.325 0.5 0.62

B1

(c) $\frac{4}{5}$ and 80%

B1 for one correct (and one incorrect) or for two correct and one incorrect

Any indication

B2

[4]

4 **Alternative method 1**

Cost per bag for one box

e.g. 1.45 ÷ 80 or 0.018…

M1

Cost per bag for both boxes

e.g. 1.45 ÷ 80 or 0.018…

and 1.05 ÷ 60 or 0.017(5)

M1dep

0.018… and 0.17(5) and Box B

oe

A1

For more help, please visit www.exampaperspractice.co.uk

EXAM PAPERS PRACTICE

Alternative method 2

Bags per $ for one box

e.g. 80 ÷ 1.45 or 55.(…)

M1

Bags per $ for both boxes

e.g. 80 ÷ 1.45 or 55.(…)

and 60 ÷ 1.05 or 57.(…)

M1

55.(…) and 57.(…) and Box B

A1

Alternative method 3

$\frac{60}{80} \times 1.45$ or $\frac{80}{60} \times 1.05$

method for cost of 60 As or 80 Bs

M1

1.08(75) or 1.4(0)

A1

1.08(75) (and 1.05) and Box B

or

1.4(0) (and 1.45) and Box B

A1

Alternative method 4

Method for scaling up or down both prices to consistent numbers of tea bags

e.g. for 20 tea bags, 1.45 ÷ 4 and 1.05 ÷ 3

M1

Correct prices for consistent numbers of tea bags

e.g. 0.36(25) and 0.35

A1

Correct prices for consistent numbers of tea bags and Box B

e.g. 0.36(25) and 0.35 and Box B

A1

Additional Guidance

Ignore any units stated

Correct values seen alongside other incorrect working

max 2 marks

© 2026 Exam Papers Practice. All Rights Reserved

Correct comparable values ($) for method 4:

Bags	2	4	5	8	10	20	240	480
A	0.03625	0.0725	0.090625	0.145	0.18125	0.3625	4.35	8.7
B	0.035	0.07	0.0875	0.14	0.175	0.35	4.2	8.4

[3]

5

Alternative method 1

775 ÷ 310 or 2.5

or 30 ÷ 12

oe

may be implied by correct value seen

M1

their 2.5 × 112 or 280

or their 2.5 × 2 or 5

oe

M1dep

280 (for butter)

and 5 (for eggs)

A1

Alternative method 2

112 ÷ 12 or 9.3(33…)

or 2 ÷ 12 or 0.16(66…) or 0.17

oe

may be implied by correct value seen

M1

their 9.3(33…) × 30

or their 0.16(66…) × 30

or their 0.17 × 30

oe

M1dep

280 (for butter)

and 5 (for eggs)

A1

[3]

For more help, please visit www.exampaperspractice.co.uk

EXAM PAPERS PRACTICE

6 8

B1

[1]

7 $\frac{10}{100} \times 200$ oe or 20 seen

$\frac{90}{100} \times 200$ *oe or 180 is M2*

M1

200 − their 20 or 180 seen

$\frac{90}{100} \times 200$ *oe or 180 is M2*

M1dep

6

A1

Method shown for 90% of 200 and dividing their result by 30

Strand (iii)

Q1

Alternative Method

$\frac{200}{30}$ or $\frac{20}{3}$ *oe*

M1

$\frac{10}{100}$ × their $\frac{200}{30}$ or $\frac{2}{3}$ *oe*

M1dep

6

A1

Method shown for dividing by 30 and finding 90% of their result

Strand (iii)

Q1

[4]

8 $49.50

B1

[1]

9 2, 3, 4, 5, 8

B1

[1]

10 100 − (27 + 41) *oe*

M1

32

A1

© 2016 Exam Papers Practice. All rights reserved

Correct minimum numbers for their 32

ft from their 32

B1 buys beads to make each number of each colour equal

R = 14, *B* = 0, *G* = 9 scores 4 marks

or two correct minimum numbers for their 32

SC2 R = 14 and B = 0

SC1 R = 14

B2ft

[4]

11 Correct method to change $\frac{5}{8}$ **and** $\frac{2}{3}$ into fractions with common denominator with at least one correct numerator

eg $\frac{16}{24}, \frac{15}{24}$ *(either way around)*

M1

Correct fractions and No

A1

Alternative method 1

Correct method to calculate $\frac{5}{8}$ of a chosen value **and** $\frac{2}{3}$ of the same value

eg $5 \times 40 \div 8$ *and* $2 \times 40 \div 3$

or

$\frac{5}{8} \times 40$ *and* $\frac{2}{3} \times 40$

M1

Correct evaluations and No

A1

Alternative method 2

Correct method to change $\frac{5}{8}$ **and** $\frac{2}{3}$ into decimals or percentages

M1

For more help, please visit www.exampaperspractice.co.uk

$\frac{5}{8}$ = 0.625 or 62.5(%)

Correct and consistent decimals or percentages

and

$\frac{2}{3}$ = 0.66(6…) or 0.67 or 66(6…)(%

or 67(%)

and

No

A1

[2]

12

600 ÷ 4 (= 150) *oe*

M1

$\frac{40}{100}$ × 600 (= 240) *oe*

M1

their 150 + their 240 (= 390)

600 − their 150 (= 450)

or 600 − their 240 (= 360)

M1

600 − their 390

their 450 − their 240

or their 360 − their 150

M1

210

A1

Alternative method 1

25(%)

0.25

M1

their 25(%) + 40(%) (= 65(%))

their 0.25 + 0.4(0) (= 0.65)

M1

100(%) − their 65(%) (= 35(%))

1 − their 0.65 (= 0.35)

M1

$\frac{\text{their } 35(\%)}{100}$ × 600 *oe*

0.35 × 600

M1

For more help, please visit www.exampaperspractice.co.uk

EXAM PAPERS PRACTICE

210

A1

Alternative method 2

$\frac{2}{5}$ or $\frac{40}{100}$ *oe*

M1

their $\frac{5}{20}$ + their $\frac{8}{20}$ *oe*

makes common denominators with at least 1 correct numerator

M1

1 − (their $\frac{5}{20}$ + their $\frac{8}{20}$) = ($\frac{7}{20}$)

M1 dep

their $\frac{7}{20}$ × 600 *oe*

M1

210

A1

[5]

13 (a) $\frac{125}{250}$ *oe*

M1

$\frac{1}{2}$

Must be a fraction

A1

(b) $\frac{6}{100}$ × 250 *oe*

M1

15

SC1 235

A1

[4]

14 −0.5 and −0.4 and A

B1 −0.5 or −0.4

oe

B2

© 2026 Exam Papers Practice. All Rights Reserved

EXAM PAPERS PRACTICE

Additional Guidance

May show choice by selecting −0.5 rather than A

$-\frac{1}{2}$ and $-\frac{2}{5}$ and A

B2

[2]

15 5 − 2 (= 3)

oe

M1

$\frac{210}{\text{their } 3}(\times 5)$ or 70 seen

70 seen is M2 but not from 50 + 20

M1 dep

350

SC2 490 or 140

A1

Alternative method

50 : 20

Or equivalent ratio with a bigger difference

M1

350 : 140

M1 dep

350

SC2 490 or 140

A1

[3]

16 $\frac{33}{44}$ and $\frac{28}{44}$

oe common denominator with at least one numerator correct

M1

$\frac{61}{44}$ with correct working seen

oe fraction

A1

$1\frac{17}{44}$ with correct working seen

ft their improper fraction correctly converted with M1 awarded

A1 ft

© 2026 Exam Papers Practice. All Rights Reserved

Additional Guidance

Working in decimals scores M0A0 unless recovered

[3]

17 6.5 or 3.25 seen **M1**

9.75

or 6.5 + 3.25

or 65 − (6.5 + their 3.25)

or 65 − (their 6.5 + 3.25) **M1dep**

55.25 **A1**

Alternative method 1

0.15 × 65 *oe* **M1**

9.75

or 65 − their (0.15 × 65) oe **M1dep**

55.25 **A1**

Alternative method 2

0.85 *oe* **M1**

0.85 × 65 *oe* **M1dep**

55.25 **A1**

[3]

18 48 ÷ 4 or 12 **M1**

(48 + 54) ÷ 3 or 102 ÷ 3 or 34 *oe* **M1**

22 **A1**

[3]

EXAM PAPERS PRACTICE
© 2026 Exam Papers Practice. All Rights Reserved
For more help, please visit www.exampaperspractice.co.uk

EXAM PAPERS PRACTICE

19 (a) 83 600 000

B1

(b) $4.72(00) \times 10^4$

B1 47 200

or correct number not in standard form

B2

[3]

20 (a) 18 (×) 2 or 12 (×) 3 or 9 (×) 2 (×) 2

Allow on prime factor tree or repeated division

or 3 (×) 3 (×) 4 or 2 (×) 3 (×) 6

Condone 18 (×) 2 (×) 1 etc. for this mark

M1

2 (×) 2 (×) 3 (×) 3

Allow on prime factor tree or repeated division

A1

$2^2 \times 3^2$

ft any product of prime numbers in index form if M1 awarded

A1ft

(b) 9

B1 answer 3 or 3^2 or 3×3

or $81 = 3^4$ or 3 (×) 3 (×) 3 (×) 3

B2

[5]

© 2026 Exam Papers Practice. All Rights Reserved