

TARGET BOOKLET

GCSE MATHS

**2022-23**

**Contents**

**Targets…………………………………………………………Page 3**

**Introduction to Number…………………………………..…Pages 4-10**

**Fractions …..………………………………………………….Pages 11-18**

**Percent..………………………………………………………..Pages 19-25**

**Ratios……………………………….…………………………..Pages 26-32**

**Scale and Maps………………………………………….........Pages 33-38**

**Introduction to Algebra …………………………….………..Pages 39-48**

**Substitution……………………………………………….……Pages 49-55**

**Linear equations and inequalities………………….………Pages 56-62**

**Circle ………………………………….………………….……..Pages 63-68**

All Questions are from AQA past papers and topic tests

|  |  |  |
| --- | --- | --- |
| Source | Target | Completion (Y/N) |
|  |  |  |
|  |
|  |
|  |  |  |
|  |
|  |
|  |  |  |
|  |
|  |
|  |  |  |
|  |
|  |
|  |  |  |
|  |
|  |
|  |  |  |
|  |
|  |
|  |  |  |
|  |
|  |

**Icon

Description automatically generatedNumber**

Graphical user interface, text, application

Description automatically generated

Table

Description automatically generated

(19 May 2020)

Grade 3

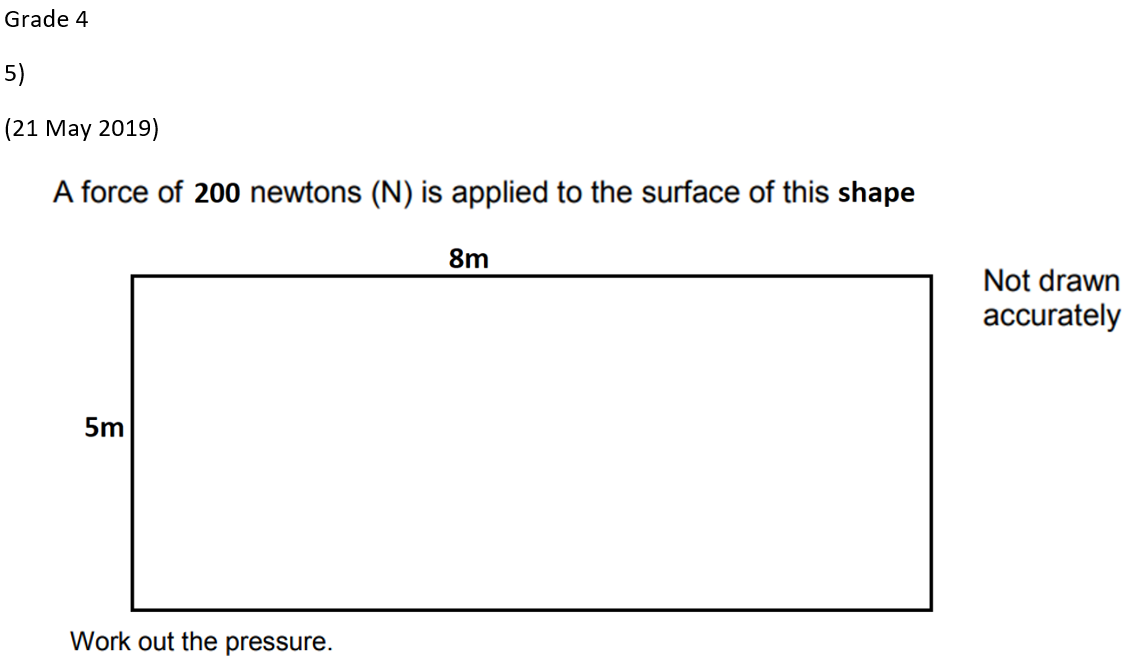
(21 May 2019)

Graphical user interface, text, application, email

Description automatically generated

Diagram

Description automatically generated



Chart, box and whisker chart

Description automatically generated

**Icon

Description automatically generated with medium confidenceNumber**

Calculator

Grade 1-2

Graphical user interface, text, application, email

Description automatically generated(4 June 2020)

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

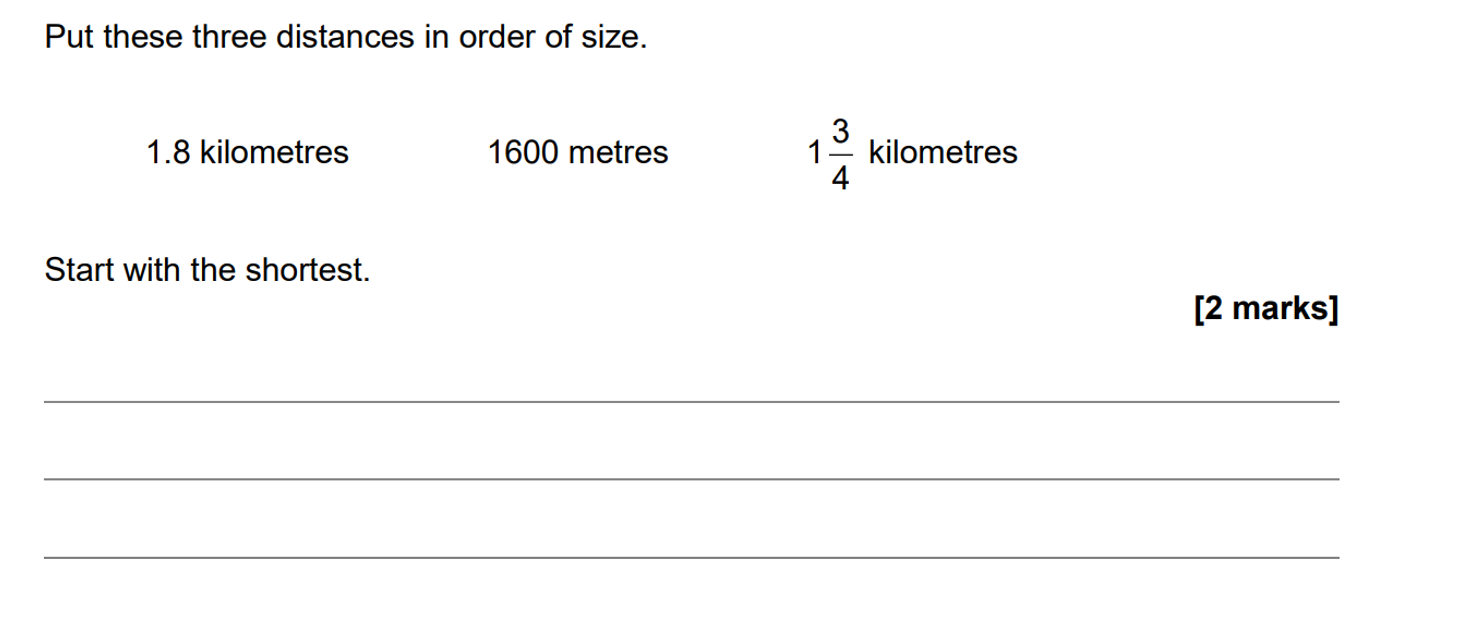
(8 June 2020) Graphical user interface, text, application, email

Description automatically generated

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Grade 3

(8 June 2020)



(8 June 2020)

A picture containing chart

Description automatically generatedText

Description automatically generated

Grade 4

(8 June 2020)

A picture containing application

Description automatically generated

Application

Description automatically generated with low confidence

(11 June 2019)

Text

Description automatically generated with medium confidence

Answer £ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generatedQr code

Description automatically generatedQr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A picture containing text, furniture, table, worktable

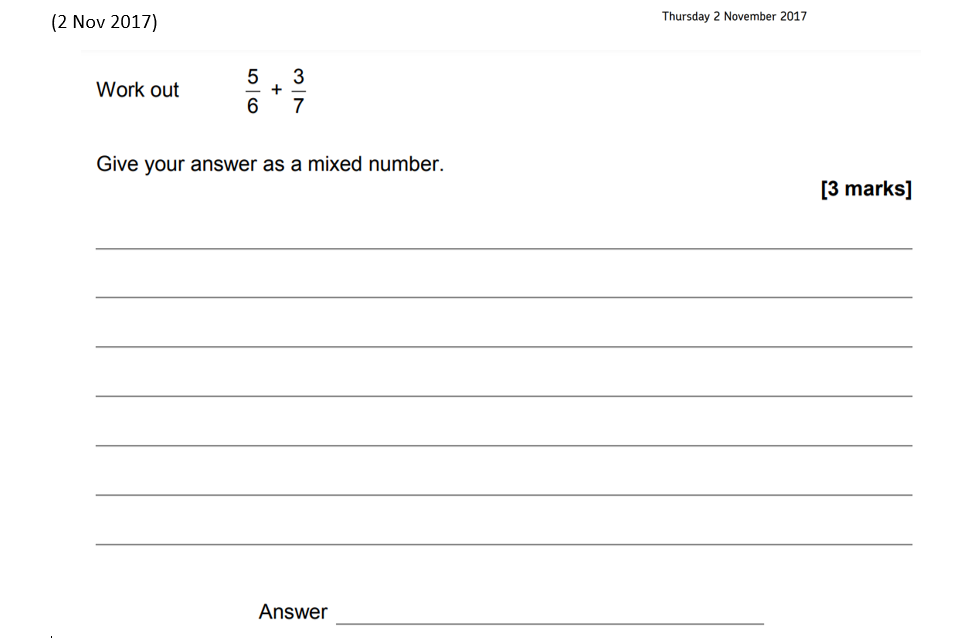
Description automatically generatedFractions**

Non-Calculator

Graphical user interface, text, application, email

Description automatically generatedGrade 1-2

Grade 3



Graphical user interface, text, application

Description automatically generated

**Icon

Description automatically generated with medium confidenceFractions**

Calculator

Grade 1-2

Chart, scatter chart

Description automatically generated

(20 May 2022 predicted)

Chart

Description automatically generated

Grade 3

Text

Description automatically generated with low confidence

Graphical user interface, application

Description automatically generated

Text, table

Description automatically generated

Table

Description automatically generatedGrade 4

Graphical user interface, text, application

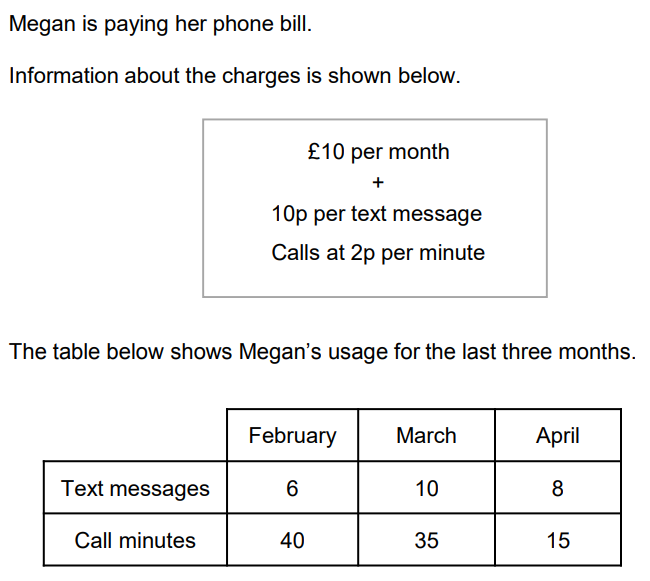
Description automatically generated

A picture containing text, lamp

Description automatically generated

Graphical user interface, text, application

Description automatically generated

(20 May 2022 predicted)

Find Megan’s greatest phone bill as a fraction of her lowest, writing your answer as a top heavy fraction in its simplest terms.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A picture containing text, furniture, table, worktable

Description automatically generatedPercent**

Non-Calculator

Grade 1-2

A picture containing text

Description automatically generated

A picture containing chart

Description automatically generated

Text, letter

Description automatically generated

Grade 3

Chart

Description automatically generated

A picture containing background pattern

Description automatically generated

A picture containing rectangle

Description automatically generated

Grade 4

Table

Description automatically generated with low confidence

Text, application

Description automatically generated

**Icon

Description automatically generated with medium confidencePercent**

Calculator

Grade 3

A picture containing table

Description automatically generatedGraphical user interface, text, application

Description automatically generated

Grade 4

(Calculator)

An adult ticket for a museum is £16:00

A child ticket costs 70% of the price of an adult ticket.

Mrs Jenkins and her three children go to the museum.

Mrs Jenkins has a voucher that reduces the total entry cost by 10%

Mrs Jenkins pays with three £20 notes.

Work out how much change Mrs Jenkins will receive.

**[4 marks]**

Answer £

Ellen works for a company that sells cars.

Her **monthly pay** is

* a salary of £1470
* 28% of the total **profit** the company makes from her sales
* a £250 bonus **if** she sells at least 15 cars.

The table shows information about the cars she sold last year.

|  |  |  |
| --- | --- | --- |
| **Total Cost**  **to the company** | **Total income**  **for the company** | **Number of months when**  **she sold at least 15 cars** |
| £464 500 | £538 000 | 3 |

Was Ellen’s total pay for the year more than £40 000?

You **must** show your working.

**[6 marks]**

Answer £

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A picture containing text, furniture, table, worktable

Description automatically generated**Ratios**

Non-Calculator

Grade 1-2

Graphical user interface

Description automatically generated with medium confidence

A picture containing graphical user interface

Description automatically generated

Grade 3

Application

Description automatically generated with low confidence

Chart

Description automatically generated with low confidence

A picture containing chart

Description automatically generated

Grade 4

Graphical user interface, text, application

Description automatically generated

A picture containing table

Description automatically generated

Graphical user interface, text, application

Description automatically generated

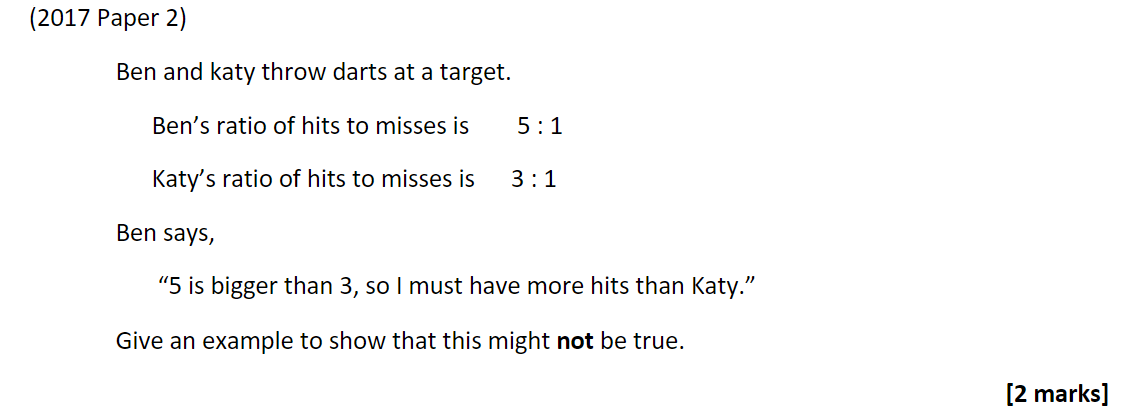
Chart

Description automatically generated

**Icon

Description automatically generated with medium confidenceRatios**

Calculator

Grade 3

A picture containing table

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A picture containing table

Description automatically generated

Grade 4

Shape

Description automatically generated with low confidence

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A picture containing text, furniture, table, worktable

Description automatically generatedScales and Maps**

Non-Calculator

Grade 3

Graphical user interface, text, application

Description automatically generated

Shape

Description automatically generated

Text, application

Description automatically generated with medium confidence

Grade 4

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Icon

Description automatically generated with medium confidence**Scales and Maps**

Calculator

Diagram

Description automatically generatedGrade 3

Table

Description automatically generated with low confidence

Diagram

Description automatically generatedGrade 4

a) A is due west of B

Write down the bearing of A from B. [1 mark[

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Umar drives from A to B on the route shown.

Kaz drives fro B to C on the route shown.

Use the map to work out how much further Umar drives than Kaz.

You must show your working. [5 marks]

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A picture containing text

Description automatically generated

A picture containing table

Description automatically generated

Shape

Description automatically generated with medium confidenceA picture containing diagram

Description automatically generated

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A picture containing text, furniture, table, worktable

Description automatically generatedIntroduction to Algebra**

Non-Calculator

Grade 1-2

Text, letter

Description automatically generated

Text

Description automatically generated

Text, letter

Description automatically generatedGrade 3

Text, email

Description automatically generated

Text

Description automatically generated with medium confidenceGrade 4

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Grade 5

Graphical user interface, text, application

Description automatically generated

**Icon

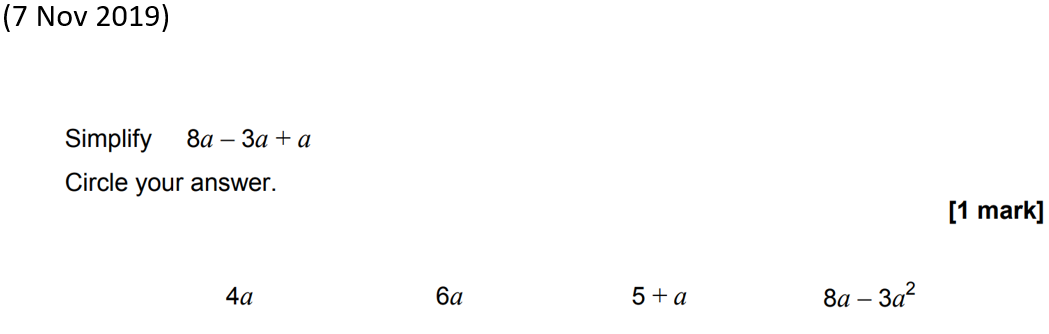
Description automatically generated with medium confidenceIntroduction to Algebra**

Calculator

Grade 3

Text, application

Description automatically generated



Grade 4

Graphical user interface, application

Description automatically generated

Text, application

Description automatically generated

Diagram

Description automatically generated

Text, application

Description automatically generated with medium confidence

Grade 5

Graphical user interface, text, application

Description automatically generated

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generatedQr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A picture containing text, furniture, table, worktable

Description automatically generatedSubstitution**

Non-Calculator

Grade 3

Graphical user interface, text, application

Description automatically generated

Diagram

Description automatically generated

Grade 4

Text, letter

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

**Icon

Description automatically generated with medium confidenceSubstitution**

Calculator

Grade 3

Graphical user interface, text, application, email

Description automatically generated

Diagram

Description automatically generated with medium confidence

Diagram

Description automatically generated

Diagram

Description automatically generatedDiagram

Description automatically generated

Grade 4

a)

Rectangle

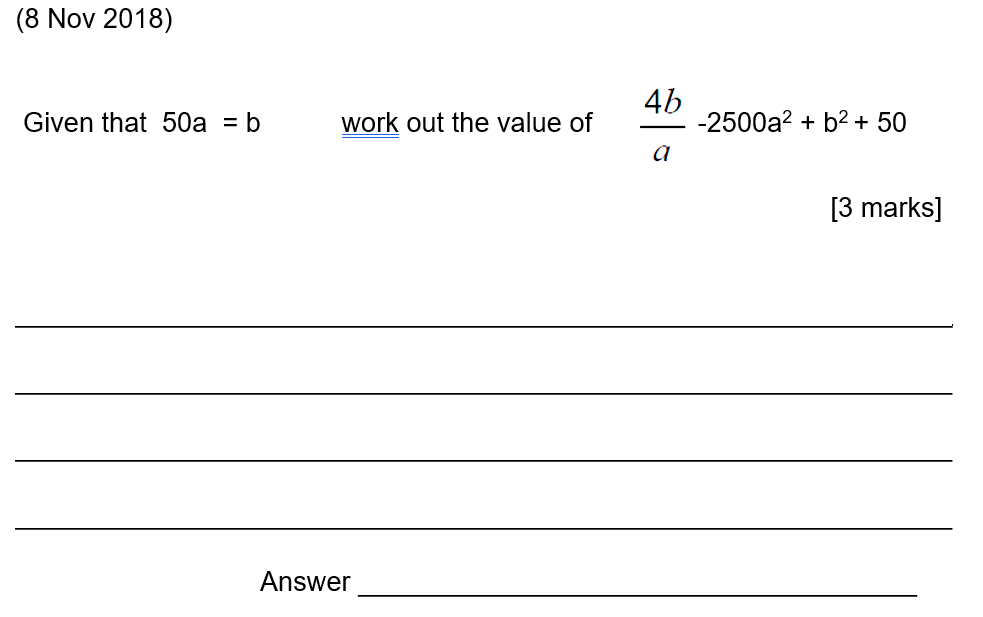
Description automatically generated with medium confidenceA screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated

Grade 5



QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A picture containing text, furniture, table, worktable

Description automatically generatedLinear Equations and Inequalities**

Non-Calculator

Grade 1-2

(2017 May )

Solve – 3 = 0

Circle your answer.

**[1 mark]**

(2019 May )

Solve = 8

Circle your answer [1 mark]

2

(2017 November)

Solve

**[1 mark]**

              \_\_

Grade 3

(2017 November)

3a + b = 7 and

Show that 9a + 3b has a **greater** value than

**[2 marks]**

(2017 November)

Solve [2 marks]

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve [2 marks]

Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Grade 4

(2018 November)

Solve [2 marks]

    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2019 November)

Solve [3 marks]

                                                                                                                                                                                                                                                                                  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2020 November)

Solve [2 marks]

                                                                                                                                                                                                                                                                                  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Linear Equations and Inequalities**

Icon

Description automatically generated with medium confidence

Calculator

**Grade 1 - 2**

(2016 Practice Paper Set 4 - Paper 3)

Solve = 4

Circle your answer.

**[1 mark]**

(2016 Practice Paper Set 3 - Paper 2)

Write down the integer values of where 1 < 7

**[2 marks]**

Answer:

(2016 Practice Paper Set 3 - Paper 3)

Solve = 13

Circle your answer.

**[1 mark]**

**Grade 3 – 4**

(June 2017 - Paper 2)

Solve

**[2 marks]**

(June 2017 – Paper 3)

How are the whole number solutions to A and B different?

 A Solve 3 ≤ < 18

B Solve 3 < ≤ 18

**[2 marks]**

(November 2017- Paper 2)

Solve

**[3 marks]**

(November 2017 - Paper 3)

Circle the equation which has the solution

**[1 mark]**

3

(November 2017 - Paper 3)

is greater than 5 **and** less than or equal to 9.

Circle the inequality that shows this.

**[1 mark]**

5≤<9 5>≥9 5≤>9 5<≤9

(November 2018 - Paper 3)

Solve 8 > 3 -

**[2 marks]**

Answer:

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A picture containing text, furniture, table, worktable

Description automatically generated**Circles**

Non-Calculator

Grade 3

Graphical user interface, text

Description automatically generated with medium confidence

Chart, radar chart

Description automatically generated

Diagram

Description automatically generated

Grade 4

Chart, pie chart

Description automatically generated

Shape

Description automatically generated with medium confidenceShape

Description automatically generated with medium confidenceA picture containing bar chart

Description automatically generated

Chart, pie chart

Description automatically generated

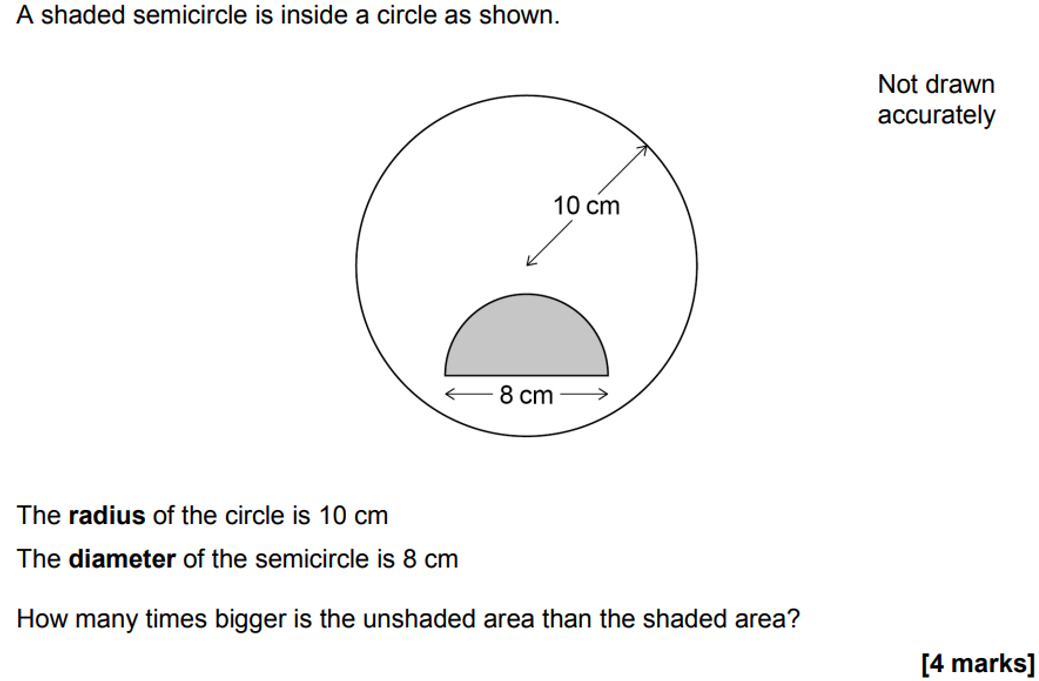
Give your answer to the nearest whole number.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cm2

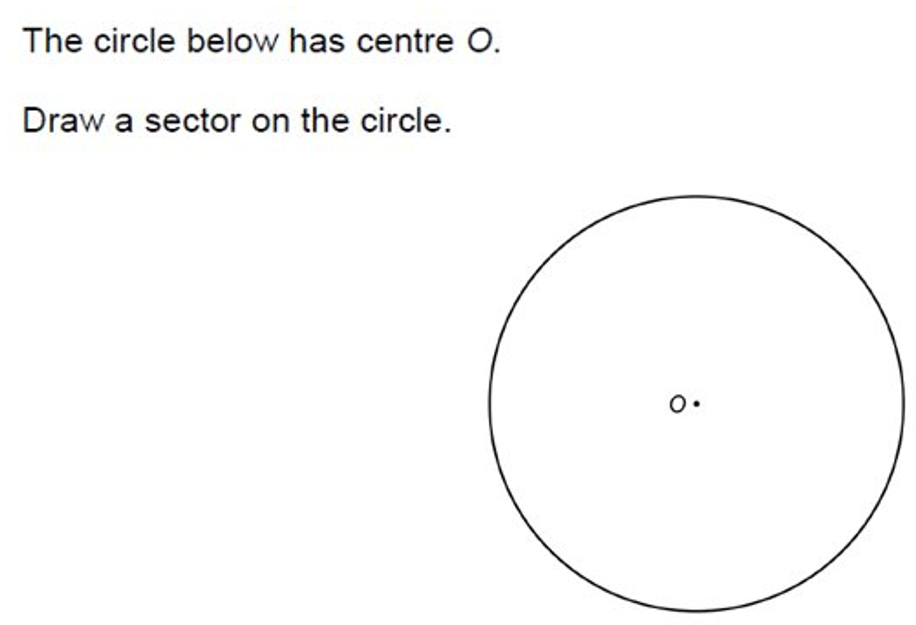


**Icon

Description automatically generated with medium confidenceCircles**

Calculator

Grade 3



[1 mark]

Diagram, engineering drawing

Description automatically generated

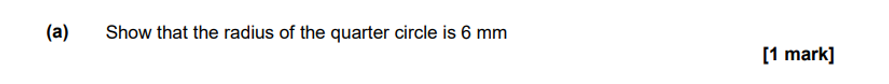
Graphical user interface, text

Description automatically generated

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shape, circle

Description automatically generatedGrade 4



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Text

Description automatically generated with medium confidence

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

QR Links for Learning Resources and Extra Practice

Qr code

Description automatically generated

Notes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_