

GCSE Maths Flashcards

Foundation and Higher revision

Forty large, print-and-cut revision cards with a question on the front and a concise worked method on the back.

WHAT'S INSIDE

- 40 question-and-answer cards
- Four large cards per A4 sheet
- Print double-sided and flip on the long edge
- Worked method on every answer card

A4 | Print at 100% or actual size | Answers included

Teachers may print and photocopy these for classroom use.

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QUESTION FRONTS - cut on the guide lines

PERCENTAGES

CARD 1

Find 35% of £240.

Work it out before turning over

REVERSE PERCENTAGES

CARD 2

A £72 price is after a 20% discount. Find the original.

Work it out before turning over

COMPOUND INTEREST

CARD 3

£500 grows by 4% for 2 years.

Work it out before turning over

RATIO

CARD 4

Share 84 in the ratio 3:4.

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

REVERSE PERCENTAGES

CARD 2

£90

£72 is 80%; divide by 0.8.

PERCENTAGES

CARD 1

£84

10% is £24; $30\% + 5\% = £72 + £12$.

RATIO

CARD 4

36 and 48

Seven parts; one part is 12.

COMPOUND INTEREST

CARD 3

£540.80

500×1.04^2 .

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QUESTION FRONTS - cut on the guide lines

FRACTIONS

CARD 5

Work out $\frac{3}{4} + \frac{2}{3}$.

Work it out before turning over

STANDARD FORM

CARD 6

Write 0.00056 in standard form.

Work it out before turning over

INDICES

CARD 7

Simplify $a^3 \times a^5$.

Work it out before turning over

SURDS

CARD 8

Simplify $\sqrt{72}$.

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

STANDARD FORM

CARD 6

$$5.6 \times 10^{-4}$$

Move the decimal four places right.

FRACTIONS

CARD 5

$$17/12 \text{ or } 1 \frac{5}{12}$$

Use denominator 12: $9/12 + 8/12$.

SURDS

CARD 8

$$6\sqrt{2}$$

$$72 = 36 \times 2.$$

INDICES

CARD 7

$$a^8$$

Add powers when multiplying the same base.

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QUESTION FRONTS - cut on the guide lines

LINEAR EQUATIONS

CARD 9

Solve $5x - 7 = 28$.

Work it out before turning over

UNKNOWNNS BOTH SIDES

CARD 10

Solve $7x + 2 = 3x + 18$.

Work it out before turning over

EXPAND

CARD 11

Expand $4(2x - 3)$.

Work it out before turning over

FACTORISE

CARD 12

Factorise $6x + 15$.

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

UNKNOWNNS BOTH SIDES

CARD 10

$$x = 4$$

Subtract $3x$ and 2 .

LINEAR EQUATIONS

CARD 9

$$x = 7$$

Add 7 , then divide by 5 .

FACTORISE

CARD 12

$$3(2x + 5)$$

Take out the HCF, 3 .

EXPAND

CARD 11

$$8x - 12$$

Multiply both terms by 4 .

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QUESTION FRONTS - cut on the guide lines

QUADRATICS

CARD 13

Solve $x^2 - 7x + 12 = 0$.

Work it out before turning over

COMPLETE THE SQUARE

CARD 14

Write $x^2 + 6x + 1$ in completed-square form.

Work it out before turning over

SEQUENCES

CARD 15

Find term 20 of 5, 8, 11, ...

Work it out before turning over

ANGLES

CARD 16

Interior angle of a regular octagon.

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

COMPLETE THE SQUARE

CARD 14

$$(x + 3)^2 - 8$$

Half 6, then compensate for 9.

QUADRATICS

CARD 13

$$x = 3 \text{ or } x = 4$$

Factorise to $(x-3)(x-4)$.

ANGLES

CARD 16

135 degrees

Interior sum 1080; divide by 8.

SEQUENCES

CARD 15

62

nth term is $3n + 2$.

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QUESTION FRONTS - cut on the guide lines

PYTHAGORAS

CARD 17

Legs are 9 cm and 12 cm. Find the hypotenuse.

Work it out before turning over

TRIGONOMETRY

CARD 18

$\sin 30 \text{ degrees} = x/14$. Find x .

Work it out before turning over

CIRCLE AREA

CARD 19

Area of radius 5 cm, in terms of π .

Work it out before turning over

CIRCLE CIRCUMFERENCE

CARD 20

Circumference of diameter 12 cm, in terms of π .

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

TRIGONOMETRY

CARD 18

7

$$x = 14 \times 0.5.$$

PYTHAGORAS

CARD 17

15 cm

$$\sqrt{9^2 + 12^2} = \sqrt{225}.$$

CIRCLE CIRCUMFERENCE

CARD 20

12pi cm

$$\text{Circumference} = \pi d.$$

CIRCLE AREA

CARD 19

25pi cm²

$$\text{Area} = \pi r^2.$$

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QUESTION FRONTS - cut on the guide lines

VOLUME

CARD 21

Volume of a 3 by 4 by 8 cm cuboid.

Work it out before turning over

SIMILARITY

CARD 22

Length scale factor is 3. Small area is 8 cm². Large area?

Work it out before turning over

PROBABILITY

CARD 23

A fair die is rolled. P(number greater than 4)?

Work it out before turning over

TREE DIAGRAMS

CARD 24

Bag: 3 red, 2 blue. Two without replacement. P(both red)?

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

SIMILARITY

CARD 22

72 cm²

Area scale factor is $3^2 = 9$.

VOLUME

CARD 21

96 cm³

Multiply length, width and height.

TREE DIAGRAMS

CARD 24

3/10

$\frac{3}{5} \times \frac{2}{4}$.

PROBABILITY

CARD 23

1/3

Two favourable outcomes out of six.

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QUESTION FRONTS - cut on the guide lines

AVERAGES

CARD 25

Find the mean of 7, 9, 11, 13.

Work it out before turning over

FREQUENCY DENSITY

CARD 26

**Frequency 36, class width 8.
Find density.**

Work it out before turning over

SPEED

CARD 27

**Travel 150 miles in 3 hours.
Average speed?**

Work it out before turning over

DENSITY

CARD 28

**Mass 540 g, volume 60 cm³.
Density?**

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

FREQUENCY DENSITY

CARD 26

4.5

Frequency density = frequency / width.

AVERAGES

CARD 25

10

Total 40, divided by 4.

DENSITY

CARD 28

9 g/cm³

Density = mass / volume.

SPEED

CARD 27

50 mph

Speed = distance / time.

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QUESTION FRONTS - cut on the guide lines

DIRECT PROPORTION

CARD 29

y is proportional to x; $y=15$ when $x=3$. Find y when $x=8$.

Work it out before turning over

INVERSE PROPORTION

CARD 30

y is inversely proportional to x; $y=12$ when $x=2$. Find y when $x=8$.

Work it out before turning over

SIMULTANEOUS EQUATIONS

CARD 31

Solve $x+y=11$ and $x-y=3$.

Work it out before turning over

INEQUALITIES

CARD 32

Solve $3x - 4 > 11$.

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

INVERSE PROPORTION

CARD 30

3

$xy=24$, so $y=24/8$.

DIRECT PROPORTION

CARD 29

40

Constant is 5, so $y=5x$.

INEQUALITIES

CARD 32

$x > 5$

Add 4 and divide by positive 3.

SIMULTANEOUS EQUATIONS

CARD 31

$x=7, y=4$

Add equations to get $2x=14$.

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QUESTION FRONTS - cut on the guide lines

FUNCTIONS

CARD 33

$f(x)=2x^2-3$. Find $f(4)$.

Work it out before turning over

TRANSFORMATIONS

CARD 34

Translate $(2,-1)$ by vector $(3,4)$.

Work it out before turning over

VECTORS

CARD 35

$a=(2,1)$, $b=(-1,4)$. Find $a+b$.

Work it out before turning over

BOUNDS

CARD 36

**$x=4.2$ correct to nearest 0.1.
Give bounds.**

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

TRANSFORMATIONS

CARD 34

(5,3)

Add corresponding coordinates.

FUNCTIONS

CARD 33

29

$2(16)-3.$

BOUNDS

CARD 36

$4.15 \leq x < 4.25$

Half a tenth is 0.05.

VECTORS

CARD 35

(1,5)

Add x and y components.

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QUESTION FRONTS - cut on the guide lines

GRADIENT

CARD 37

Gradient through (2,3) and (6,11).

Work it out before turning over

EQUATION OF A LINE

CARD 38

Line gradient 3, y-intercept -2.

Work it out before turning over

QUADRATIC FORMULA

CARD 39

Solve $x^2 - 5x + 6 = 0$.

Work it out before turning over

ITERATION

CARD 40

For $x_{(n+1)} = (x_n + 6/x_n)/2$ and $x_1 = 2$, find x_2 .

Work it out before turning over

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ANSWER BACKS - cut on the guide lines

EQUATION OF A LINE

CARD 38

$$y = 3x - 2$$

Use $y=mx+c$.

GRADIENT

CARD 37

$$2$$

$(11-3)/(6-2)$.

ITERATION

CARD 40

$$2.5$$

$(2 + 6/2)/2$.

QUADRATIC FORMULA

CARD 39

$$x=2 \text{ or } x=3$$

Substitute $a=1$, $b=-5$, $c=6$.