

Core Maths Transition – Answers

Place Value and Rounding

1. six million four hundred five thousand two hundred eighteen

2. 0.5

3. 48.7

4. 48.74

5. 0.0064

6. 93,000

7. 4.7×10^{-4}

8. 320000

9. 0.42

10. £20.00

11. 8000

12. 4000000

13. thousandths (0.003)

14. 70000

15. Rounding simplifies numbers for estimates

Four Operations

1. 8371

2. 3526

3. 1692

4. 36

5. 6691

6. 4531

7. 6000

8. 84

9. £46.20

10. £12

11. 14093

12. 5624

13. 1053

14. 189

15. £85.50

Order of Operations

1. 30

2. 72

3. 4

4. 18

5. 11

6. $23/3$

7. 46

8. 44

9. 17

10. 15

11. 42

12. 4

13. 32

14. Brackets prioritise operations

15. Example: $(2+3) \times 4$

Negative Numbers

1. 4
2. -9
3. -42
4. -6
5. -13
6. -8
7. 72
8. -8
9. -15
10. -36
11. 5
12. -20
13. -13°C
14. £27
15. Used for temperature, debt

Fractions

1. $\frac{3}{5}$
2. $\frac{3}{4}$
3. 0.375
4. $\frac{3}{5}$
5. 24
6. 63
7. $\frac{4}{7}$
8. $\frac{7}{4}$
9. $2\frac{3}{4}$
10. 18
11. $\frac{1}{8}$
12. $\frac{3}{4}$
13. 40

14. 0.45

15. They represent parts

Add/Subtract Fractions

1. $\frac{2}{3}$
2. $\frac{2}{3}$
3. $\frac{7}{8}$
4. $\frac{1}{10}$
5. $\frac{11}{9}$
6. $\frac{1}{2}$
7. $\frac{11}{10}$
8. $\frac{3}{8}$
9. $3\frac{3}{4}$
10. $2\frac{1}{4}$
11. $\frac{17}{12}$
12. $\frac{2}{3}$
13. $\frac{1}{2}$
14. $\frac{15}{20}$ or $\frac{3}{4}$
15. Common denominators needed

Multiply/Divide Fractions

1. $\frac{8}{15}$

2. 14

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

4. $\frac{27}{40}$

5. 10

6. 12

7. $\frac{2}{7}$

8. 6

9. $\frac{42}{99}$

10. $\frac{1}{2}$

11. 9

12. 32

13. 4 km

14. 24

15. Multiply by reciprocal

Decimals

1. 7.55

2. 2.534

3. 1.44

4. 15

5. 0.288

6. 3.42

7. 1

8. 15

9. £16.45

10. £4.65

11. 0.063

12. 10.387

13. 50

14. 3.6

15. Useful for money

Percentages

1. £6

2. 20

3. £30

4. 330

5. £400

6. 18

7. £18

8. £50

9. 76.5

10. 20%

11. 25%

12. 35%

13. 0.07

14. £4.50

15. Easy comparison

Ratio

1. 1:3
2. 3:4
3. £20 and £40
4. £36 and £54
5. $\frac{3}{5}$
6. $\frac{4}{1}$
7. 40
8. 300g
9. 2:3:1
10. £60, £40, £20
11. $\frac{7}{10}$
12. $\frac{5}{4}$
13. Compares quantities
14. Recipe example
15. Ratio compares parts, fraction part of whole

Powers & Roots

1. 32
2. 81
3. 125
4. 7
5. 11
6. 12
7. 10^3
8. 10^{-2}
9. 10
10. $2^7=128$
11. 81
12. 15
13. 1×10^5

14. 0.06

15. Square root reverses squaring

Algebra Basics

1. $8x$
2. $5a$
3. $7y$
4. 20
5. 19
6. $2x+3$
7. $x/2+4$
8. $2p+7$
9. $6x+18$
10. $5y-10$
11. $4x$
12. 19
13. $5k$
14. A symbol for number
15. Formulas

Solving Equations

1. 9
2. 10
3. 6
4. 9
5. 24
6. 35
7. 4
8. 7
9. 4
10. 2
11. 12
12. 5
13. 9
14. 4
15. Substitute back

Substitution

1. 12
2. 18
3. 22
4. 64
5. 20
6. 13
7. 20
8. 3
9. 24
10. 18
11. 13
12. 9
13. 28
14. 10

15. Gives values

Coordinates & Graphs

1. (0,0)
2. (4,-3)
3. Quadrant II
4. Quadrant IV
5. Plotted
6. Plotted
7. Plotted
8. Straight line
9. (x,0)
10. (0,y)
11. Horizontal axis
12. Vertical axis
13. Maps/GPS
14. Axes drawn
15. Shows relationships

Averages

1. 8
2. 8
3. 4
4. 15
5. Mean
6. 5
7. 3
8. 6
9. 18
10. Income
11. Outliers
12. Median
13. 12
14. Spread
15. Summarise data

15. Temperature

Estimation & Data

1. 1000
2. 60
3. 7000
4. 0.09
5. 160
6. Quick check
7. Collected yourself
8. From others
9. Bar, line
10. Proportions
11. Categories
12. Visualise data
13. Sales?
14. Check steps