5th grade math worksheets

19 sheets, one of each skill, with the answer keys together from page 21.

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Multi-digit multiplication



Multiply by the ones, then by the tens on the next line, starting with a 0. Add the two lines.

Name _____ Date _____

1.

$$\begin{array}{r} 173 \\ \times\ 87 \\ \hline \\ \hline \end{array}$$

2.

$$\begin{array}{r} 497 \\ \times\ 72 \\ \hline \\ \hline \end{array}$$

3.

$$\begin{array}{r} 365 \\ \times\ 87 \\ \hline \\ \hline \end{array}$$

4.

$$\begin{array}{r} 551 \\ \times\ 15 \\ \hline \\ \hline \end{array}$$

5.

$$\begin{array}{r} 134 \\ \times\ 82 \\ \hline \\ \hline \end{array}$$

6.

$$\begin{array}{r} 203 \\ \times\ 92 \\ \hline \\ \hline \end{array}$$

7.

$$\begin{array}{r} 702 \\ \times\ 63 \\ \hline \\ \hline \end{array}$$

8.

$$\begin{array}{r} 682 \\ \times\ 93 \\ \hline \\ \hline \end{array}$$

9.

$$\begin{array}{r} 917 \\ \times\ 85 \\ \hline \\ \hline \end{array}$$

10.

$$\begin{array}{r} 141 \\ \times\ 67 \\ \hline \\ \hline \end{array}$$

11.

$$\begin{array}{r} 287 \\ \times\ 17 \\ \hline \\ \hline \end{array}$$

12.

$$\begin{array}{r} 333 \\ \times\ 97 \\ \hline \\ \hline \end{array}$$

Long division

Divide, multiply, take away, bring down. Write the answer above the line.

Name _____ Date _____

1. $98\overline{)6174}$

2. $59\overline{)6608}$

3. $17\overline{)7106}$

4. $62\overline{)5208}$

5. $88\overline{)4576}$

6. $72\overline{)1944}$

7. $97\overline{)9215}$

8. $99\overline{)1881}$

9. $77\overline{)9394}$

10. $36\overline{)2340}$

11. $96\overline{)9984}$

12. $86\overline{)6364}$

Powers of 10

Write the number, or the power of 10, on the line.

Name _____ Date _____

1. $2 \times 10^2 =$ _____
2. $800{,}000 = 8 \times$ _____
3. $10^1 =$ _____
4. $3 \times 10^5 =$ _____
5. $50 = 5 \times$ _____
6. $6 \times 10^6 =$ _____
7. $9{,}000 = 9 \times$ _____
8. $10^2 =$ _____
9. $5 \times 10^5 =$ _____
10. $9{,}000{,}000 = 9 \times$ _____
11. $5 \times 10^3 =$ _____
12. $400 = 4 \times$ _____
13. $10^4 =$ _____
14. $3 \times 10^1 =$ _____
15. $700 = 7 \times$ _____
16. $6 \times 10^4 =$ _____
17. $40{,}000 = 4 \times$ _____
18. $10^5 =$ _____
19. $3 \times 10^4 =$ _____
20. $300 = 3 \times$ _____

Rounding decimals

Round each number to the place named. The next digit to the right decides: 5 or more rounds up.

Name _____ Date _____

1. 33.587 to the nearest tenth _____
2. 61.259 to the nearest tenth _____
3. 2.184 to the nearest hundredth _____
4. 56.224 to the nearest hundredth _____
5. 29.653 to the nearest whole number _____
6. 72.113 to the nearest whole number _____
7. 29.373 to the nearest hundredth _____
8. 51.348 to the nearest tenth _____
9. 57.658 to the nearest tenth _____
10. 22.299 to the nearest hundredth _____
11. 74.964 to the nearest hundredth _____
12. 94.568 to the nearest tenth _____
13. 76.115 to the nearest hundredth _____
14. 58.498 to the nearest whole number _____
15. 29.905 to the nearest tenth _____
16. 75.615 to the nearest tenth _____
17. 36.696 to the nearest hundredth _____
18. 59.351 to the nearest tenth _____

Decimals



Add or take away. Keep the points in line, and put the point in your answer under them.

Name _____ Date _____

1. 2.6 + 7.1	2. 5.9 − 1.8	3. 4.3 + 9.3	4. 8.8 − 1.5
5. 5.6 + 0.1	6. 9.3 − 1.6	7. 8.8 + 0.8	8. 9.1 − 4.8
9. 9.8 + 6.8	10. 4.6 − 1.5	11. 7.1 + 5.5	12. 5.6 − 1.9
13. 9.6 + 8.3	14. 7.4 − 6.8	15. 8.5 + 8.8	16. 8.4 − 7.9
17. 6.7 + 5.4	18. 1.9 − 0.2	19. 9.7 + 5.6	20. 6.2 − 3.6

Decimals



Line up the points, then add or take away. Write a 0 in an empty place if it helps.

Name _____ Date _____

1. 5.7 + 0.45

2. 5.91 − 1.4

3. 8.5 + 2.96

4. 8.87 − 1.5

5. 6.07 + 0.9

6. 8.82 − 1.6

7. 8.9 + 0.46

8. 9.84 − 6.8

9. 5.2 + 5.77

10. 5.64 − 5.5

11. 9.9 + 5.82

12. 7.44 − 6.8

13. 9.94 + 0.8

14. 8.83 − 7.9

15. 3.62 + 6.5

16. 7.9 − 0.97

17. 1.2 + 9.97

18. 6.2 − 5.65

19. 5.2 + 2.37

20. 7.7 − 1.26

Multiplying decimals

Multiply as if there were no points. Then count the decimal places in both numbers and put that many in the answer.

Name _____ Date _____

1. 4.94×5

2. 0.02×3

3. 3.12×2

4. 56.9×7

5. 3.39×5

6. 0.3×5

7. 32.9×14

8. 0.04×2

9. 25.5×36

10. 78.4×17

11. 3.41×27

12. 0.03×2

Multiplying decimals

Multiply as if there were no points. Then count the decimal places in both numbers and put that many in the answer.

Name _____ Date _____

1.

$$\begin{array}{r} 1.3 \\ \times\ 4.9 \\ \hline \\ \hline \end{array}$$

2.

$$\begin{array}{r} 5.5 \\ \times\ 5.8 \\ \hline \\ \hline \end{array}$$

3.

$$\begin{array}{r} 9.4 \\ \times\ 7.9 \\ \hline \\ \hline \end{array}$$

4.

$$\begin{array}{r} 0.2 \\ \times\ 0.3 \\ \hline \\ \hline \end{array}$$

5.

$$\begin{array}{r} 0.3 \\ \times\ 0.2 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 6.2 \\ \times\ 3.7 \\ \hline \\ \hline \end{array}$$

7.

$$\begin{array}{r} 0.4 \\ \times\ 5.6 \\ \hline \\ \hline \end{array}$$

8.

$$\begin{array}{r} 2.4 \\ \times\ 2.9 \\ \hline \\ \hline \end{array}$$

9.

$$\begin{array}{r} 8.1 \\ \times\ 6.2 \\ \hline \\ \hline \end{array}$$

10.

$$\begin{array}{r} 7.5 \\ \times\ 2.4 \\ \hline \\ \hline \end{array}$$

11.

$$\begin{array}{r} 7.1 \\ \times\ 7.1 \\ \hline \\ \hline \end{array}$$

12.

$$\begin{array}{r} 0.2 \\ \times\ 0.2 \\ \hline \\ \hline \end{array}$$

Multiplying by 10, 100 and 1,000

Multiply. Move the point to the right, one place for each 0.

Name _____ Date _____

1. 7.903 × 1,000 = _____
2. 2.5 × 100 = _____
3. 3.839 × 100 = _____
4. 0.5 × 100 = _____
5. 412.5 × 1,000 = _____
6. 4.733 × 100 = _____
7. 9.2 × 1,000 = _____
8. 6.353 × 1,000 = _____
9. 0.18 × 1,000 = _____
10. 2.431 × 100 = _____
11. 267.6 × 100 = _____
12. 5.4 × 1,000 = _____
13. 139.2 × 100 = _____
14. 0.09 × 1,000 = _____
15. 9.23 × 10 = _____
16. 448.5 × 1,000 = _____
17. 5.3 × 1,000 = _____
18. 26.04 × 1,000 = _____
19. 0.92 × 10 = _____
20. 5.131 × 100 = _____
21. 2.206 × 100 = _____
22. 4.2 × 1,000 = _____
23. 38.62 × 10 = _____
24. 0.01 × 1,000 = _____
25. 10.3 × 1,000 = _____
26. 2.23 × 100 = _____
27. 4.1 × 100 = _____
28. 4.09 × 10 = _____
29. 0.36 × 10 = _____
30. 46.42 × 1,000 = _____

Dividing decimals

Divide. Put the point in the answer above the point in the number. Write 0s after the last digit if you need them.

Name _____ Date _____

1. $7 \overline{)\,24.5}$

2. $2 \overline{)\,16.78}$

3. $8 \overline{)\,6.16}$

4. $8 \overline{)\,16.48}$

5. $9 \overline{)\,108.9}$

6. $4 \overline{)\,35}$

7. $2 \overline{)\,126.4}$

8. $6 \overline{)\,1.08}$

9. $3 \overline{)\,12.06}$

10. $2 \overline{)\,15.1}$

11. $9 \overline{)\,2.34}$

12. $8 \overline{)\,25.68}$

Adding fractions with unlike denominators

Give both fractions the same denominator, then add. Write answers in simplest form.

Name _____ Date _____

1. $\frac{1}{5} + \frac{1}{4} =$

2. $\frac{3}{4} + \frac{1}{10} =$

3. $\frac{2}{5} + \frac{3}{10} =$

4. $\frac{1}{3} + \frac{1}{6} =$

5. $\frac{1}{2} + \frac{1}{6} =$

6. $\frac{1}{4} + \frac{1}{6} =$

7. $\frac{2}{3} + \frac{7}{9} =$

8. $\frac{1}{8} + \frac{1}{4} =$

9. $\frac{3}{10} + \frac{1}{3} =$

10. $\frac{7}{9} + \frac{3}{4} =$

11. $\frac{1}{8} + \frac{1}{6} =$

12. $\frac{3}{5} + \frac{3}{10} =$

13. $\frac{1}{4} + \frac{7}{10} =$

14. $\frac{1}{4} + \frac{1}{2} =$

15. $\frac{4}{5} + \frac{3}{4} =$

16. $\frac{5}{9} + \frac{3}{4} =$

17. $\frac{1}{2} + \frac{1}{3} =$

18. $\frac{1}{12} + \frac{2}{3} =$

19. $\frac{1}{5} + \frac{2}{3} =$

20. $\frac{1}{6} + \frac{1}{2} =$

Subtracting fractions with unlike denominators

Give both fractions the same denominator, then subtract. Write answers in simplest form.

Name _____ Date _____

1. $\frac{7}{12} - \frac{3}{8} =$

2. $\frac{2}{3} - \frac{5}{12} =$

3. $\frac{1}{3} - \frac{1}{9} =$

4. $\frac{1}{2} - \frac{1}{8} =$

5. $\frac{5}{6} - \frac{1}{9} =$

6. $\frac{5}{6} - \frac{2}{5} =$

7. $\frac{1}{6} - \frac{1}{10} =$

8. $\frac{3}{4} - \frac{7}{10} =$

9. $\frac{1}{3} - \frac{1}{4} =$

10. $\frac{2}{3} - \frac{3}{8} =$

11. $\frac{5}{8} - \frac{1}{4} =$

12. $\frac{2}{3} - \frac{1}{5} =$

13. $\frac{1}{6} - \frac{1}{8} =$

14. $\frac{8}{9} - \frac{1}{6} =$

15. $\frac{1}{2} - \frac{1}{6} =$

16. $\frac{1}{5} - \frac{1}{10} =$

17. $\frac{2}{3} - \frac{5}{8} =$

18. $\frac{4}{5} - \frac{1}{2} =$

19. $\frac{5}{6} - \frac{1}{8} =$

20. $\frac{5}{6} - \frac{1}{2} =$

Adding and subtracting mixed numbers

Give the fractions the same denominator. Carry a whole, or take one, when you need to.

Name _____ Date _____

1. $4\frac{1}{5} - 1\frac{1}{2} =$
2. $4\frac{4}{5} + 1\frac{1}{2} =$
3. $2\frac{5}{6} + 3\frac{3}{8} =$
4. $6\frac{3}{4} - 1\frac{1}{3} =$
5. $5\frac{7}{8} - 1\frac{1}{4} =$
6. $3\frac{7}{8} + 4\frac{2}{3} =$
7. $4\frac{1}{3} + 3\frac{3}{5} =$
8. $3\frac{2}{5} + 4\frac{1}{4} =$
9. $6\frac{1}{3} - 4\frac{3}{5} =$
10. $7\frac{1}{8} - 4\frac{1}{2} =$
11. $5\frac{2}{3} + 2\frac{1}{2} =$
12. $3\frac{1}{2} - 2\frac{3}{8} =$
13. $6\frac{7}{8} - 5\frac{2}{3} =$
14. $6\frac{1}{2} - 5\frac{5}{8} =$
15. $3\frac{1}{3} + 1\frac{1}{5} =$
16. $1\frac{3}{8} + 3\frac{1}{2} =$
17. $1\frac{1}{3} + 2\frac{7}{8} =$
18. $7\frac{1}{4} - 1\frac{3}{5} =$
19. $1\frac{3}{4} + 4\frac{2}{3} =$
20. $3\frac{3}{8} - 2\frac{1}{2} =$

Multiplying fractions

Multiply the top numbers, then the bottom numbers. Write answers in simplest form.

Name _____ Date _____

1. $\frac{5}{9} \times \frac{1}{9} =$

2. $\frac{4}{9} \times \frac{5}{6} =$

3. $\frac{2}{5} \times \frac{2}{9} =$

4. $\frac{5}{9} \times \frac{1}{2} =$

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

6. $\frac{1}{3} \times \frac{1}{2} =$

7. $\frac{1}{10} \times \frac{1}{2} =$

8. $\frac{1}{8} \times \frac{8}{9} =$

9. $\frac{1}{2} \times \frac{3}{10} =$

10. $\frac{2}{3} \times \frac{3}{8} =$

11. $\frac{1}{2} \times \frac{5}{12} =$

12. $\frac{3}{8} \times \frac{2}{3} =$

13. $\frac{1}{2} \times \frac{7}{9} =$

14. $\frac{3}{8} \times \frac{1}{4} =$

15. $\frac{1}{4} \times \frac{8}{9} =$

16. $\frac{1}{2} \times \frac{1}{2} =$

17. $\frac{5}{9} \times \frac{3}{4} =$

18. $\frac{5}{6} \times \frac{1}{2} =$

19. $\frac{1}{2} \times \frac{1}{3} =$

20. $\frac{2}{3} \times \frac{3}{5} =$

Multiplying mixed numbers

Write each mixed number as a fraction first, then multiply. Simplest form.

Name _____ Date _____

1. $2\frac{2}{3} \times 1\frac{1}{2} =$
2. $2\frac{2}{3} \times 2\frac{3}{5} =$
3. $1\frac{1}{5} \times 2\frac{1}{2} =$
4. $1\frac{1}{3} \times \frac{5}{6} =$
5. $1\frac{2}{3} \times \frac{1}{2} =$
6. $2\frac{3}{5} \times 1\frac{2}{3} =$
7. $2\frac{1}{5} \times \frac{2}{3} =$
8. $2\frac{1}{5} \times 3\frac{2}{3} =$
9. $3\frac{5}{6} \times \frac{2}{3} =$
10. $3\frac{2}{5} \times 1\frac{2}{3} =$
11. $3\frac{1}{5} \times 2\frac{1}{2} =$
12. $3\frac{1}{2} \times 1\frac{1}{4} =$
13. $3\frac{1}{3} \times 2\frac{1}{3} =$
14. $1\frac{1}{3} \times \frac{2}{3} =$
15. $2\frac{2}{3} \times 2\frac{1}{4} =$
16. $3\frac{1}{3} \times \frac{1}{6} =$
17. $3\frac{2}{5} \times 3\frac{1}{2} =$
18. $2\frac{1}{5} \times \frac{5}{6} =$
19. $2\frac{1}{2} \times 1\frac{5}{6} =$
20. $1\frac{1}{3} \times \frac{2}{5} =$

Dividing unit fractions and whole numbers

Dividing by a whole number makes each part smaller; dividing by a unit fraction asks how many fit.

Name _____ Date _____

1. $7 \div \frac{1}{9} =$

2. $5 \div \frac{1}{5} =$

3. $\frac{1}{9} \div 7 =$

4. $3 \div \frac{1}{5} =$

5. $10 \div \frac{1}{7} =$

6. $\frac{1}{5} \div 2 =$

7. $\frac{1}{7} \div 10 =$

8. $5 \div \frac{1}{9} =$

9. $\frac{1}{4} \div 9 =$

10. $\frac{1}{2} \div 4 =$

11. $\frac{1}{8} \div 2 =$

12. $\frac{1}{7} \div 8 =$

13. $\frac{1}{6} \div 4 =$

14. $\frac{1}{3} \div 4 =$

15. $\frac{1}{6} \div 8 =$

16. $2 \div \frac{1}{9} =$

17. $6 \div \frac{1}{3} =$

18. $4 \div \frac{1}{5} =$

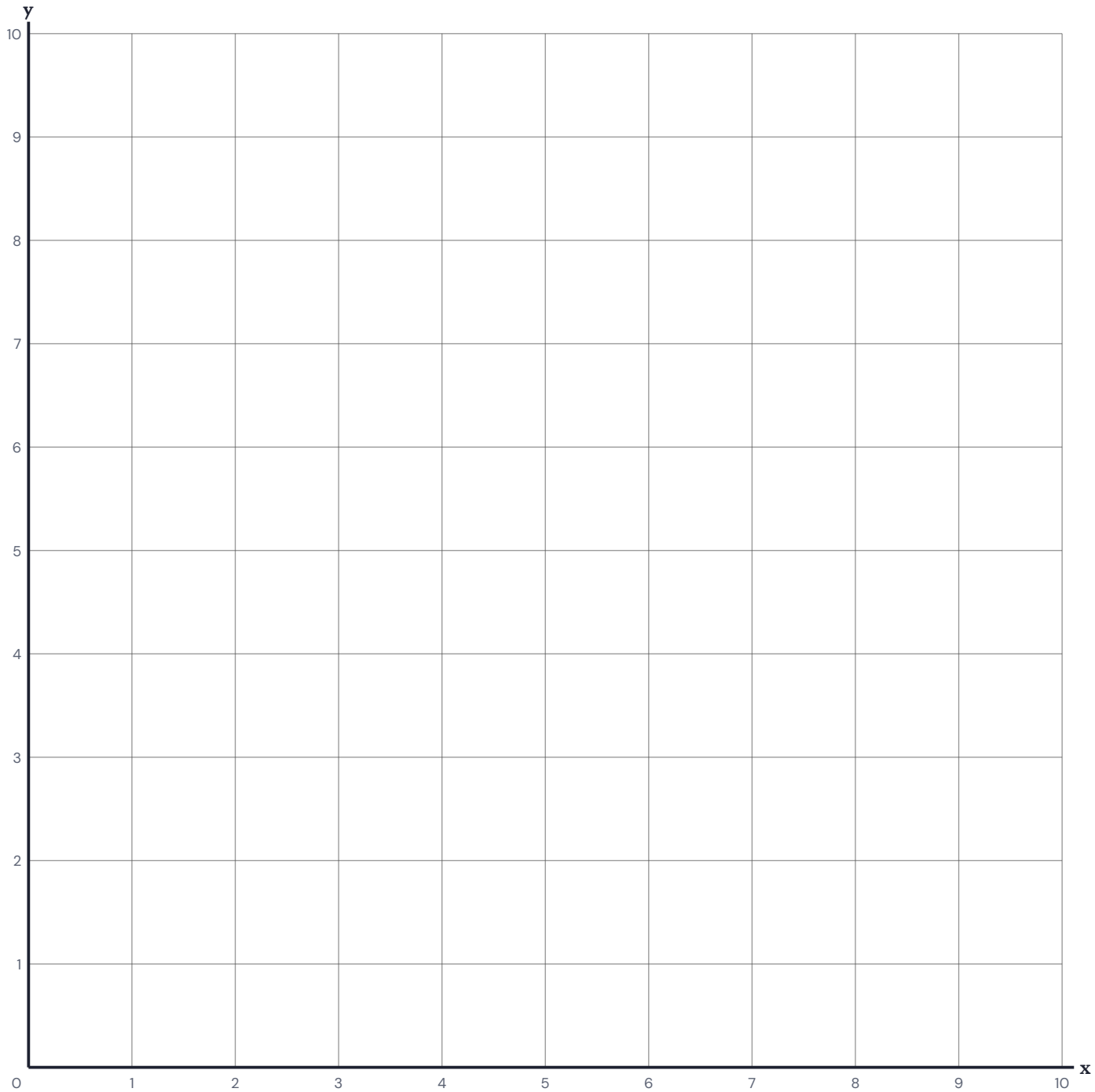
19. $8 \div \frac{1}{7} =$

20. $10 \div \frac{1}{8} =$

Plot the points

Plot each point on the grid and write its letter beside it. Go across first, then up or down.

Name _____ Date _____



A (2, 5)

B (8, 5)

C (7, 0)

D (7, 1)

E (1, 4)

F (7, 3)

G (0, 9)

H (1, 7)

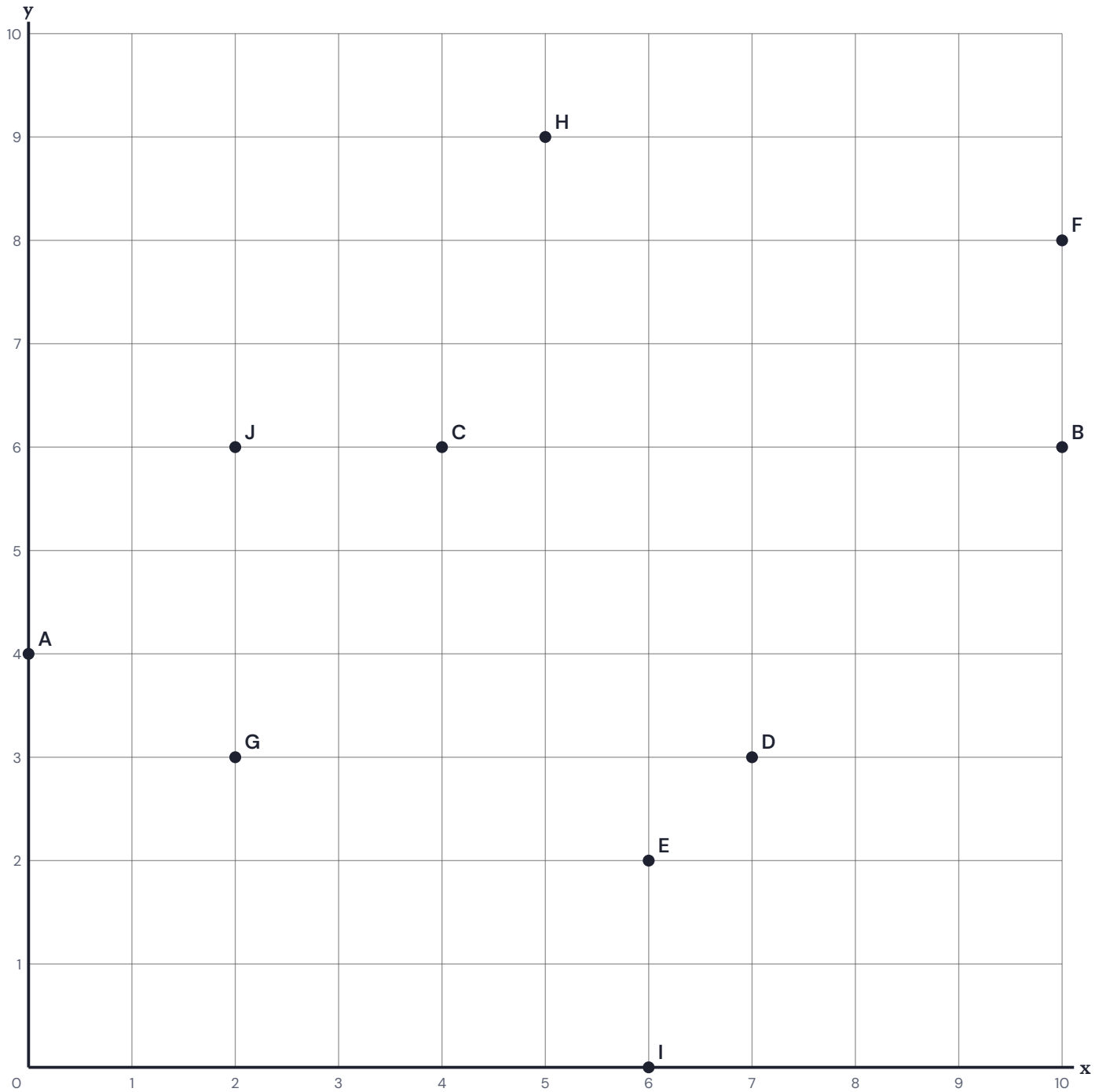
I (8, 10)

J (4, 1)

Write the coordinates

Write the coordinates of each point: across first, then up or down.

Name _____ Date _____



A (_____ , _____)

B (_____ , _____)

C (_____ , _____)

D (_____ , _____)

E (_____ , _____)

F (_____ , _____)

G (_____ , _____)

H (_____ , _____)

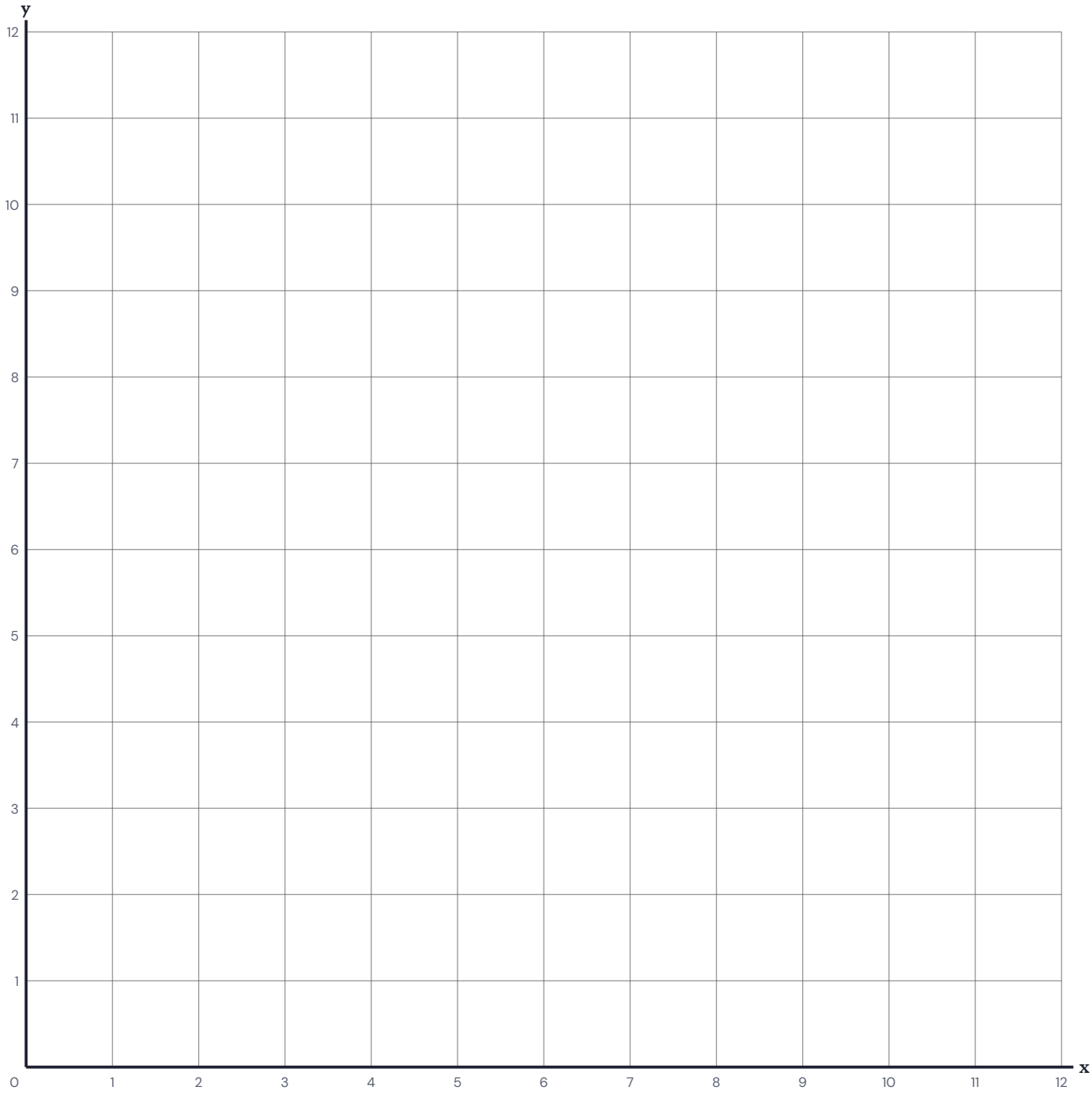
I (_____ , _____)

J (_____ , _____)

Mystery picture

Join each point to the one before it with a ruler. At Lift your pencil, start a new line.

Name _____ Date _____



1. (2, 1)
2. (2, 7)
3. (1, 7)
4. (6, 11)
5. (11, 7)
6. (10, 7)
7. (10, 1)

8. (2, 1)

Lift your pencil

9. (5, 1)
10. (5, 4)
11. (7, 4)
12. (7, 1)

Lift your pencil

13. (8, 4)
14. (8, 6)
15. (9, 6)
16. (9, 4)
17. (8, 4)

Lift your pencil

18. (3, 4)
19. (3, 6)
20. (4, 6)
21. (4, 4)
22. (3, 4)

Answer key

Multi-digit multiplication

1. **173 × 87 = 15051**
2. **497 × 72 = 35784**
3. **365 × 87 = 31755**
4. **551 × 15 = 8265**
5. **134 × 82 = 10988**
6. **203 × 92 = 18676**
7. **702 × 63 = 44226**
8. **682 × 93 = 63426**
9. **917 × 85 = 77945**
10. **141 × 67 = 9447**
11. **287 × 17 = 4879**
12. **333 × 97 = 32301**

Answer key

Long division

1. **6174 ÷ 98 = 63**
2. **6608 ÷ 59 = 112**
3. **7106 ÷ 17 = 418**
4. **5208 ÷ 62 = 84**
5. **4576 ÷ 88 = 52**
6. **1944 ÷ 72 = 27**
7. **9215 ÷ 97 = 95**
8. **1881 ÷ 99 = 19**
9. **9394 ÷ 77 = 122**
10. **2340 ÷ 36 = 65**
11. **9984 ÷ 96 = 104**
12. **6364 ÷ 86 = 74**

Powers of 10: answer key

Each question worked out, the answer in colour.

1. $2 \times 10^2 = 2 \times 100 = 200$
2. $800{,}000 = 8 \times 100{,}000 = 8 \times 10^5$
3. 10^1 = 1 with one zero = 10
4. $3 \times 10^5 = 3 \times 100{,}000 = 300{,}000$
5. $50 = 5 \times 10 = 5 \times 10^1$
6. $6 \times 10^6 = 6 \times 1{,}000{,}000 = 6{,}000{,}000$
7. $9{,}000 = 9 \times 1{,}000 = 9 \times 10^3$
8. 10^2 = 1 with two zeros = 100
9. $5 \times 10^5 = 5 \times 100{,}000 = 500{,}000$
10. $9{,}000{,}000 = 9 \times 1{,}000{,}000 = 9 \times 10^6$
11. $5 \times 10^3 = 5 \times 1{,}000 = 5{,}000$
12. $400 = 4 \times 100 = 4 \times 10^2$
13. 10^4 = 1 with four zeros = 10,000
14. $3 \times 10^1 = 3 \times 10 = 30$
15. $700 = 7 \times 100 = 7 \times 10^2$
16. $6 \times 10^4 = 6 \times 10{,}000 = 60{,}000$
17. $40{,}000 = 4 \times 10{,}000 = 4 \times 10^4$
18. 10^5 = 1 with five zeros = 100,000
19. $3 \times 10^4 = 3 \times 10{,}000 = 30{,}000$
20. $300 = 3 \times 100 = 3 \times 10^2$

Rounding decimals: answer key

The answer in colour, after the two numbers it lies between.

1. 33.587 to the nearest tenth 33.5 or 33.6? **33.6**
2. 61.259 to the nearest tenth 61.2 or 61.3? **61.3**
3. 2.184 to the nearest hundredth 2.18 or 2.19? **2.18**
4. 56.224 to the nearest hundredth 56.22 or 56.23? **56.22**
5. 29.653 to the nearest whole number 29 or 30? **30**
6. 72.113 to the nearest whole number 72 or 73? **72**
7. 29.373 to the nearest hundredth 29.37 or 29.38? **29.37**
8. 51.348 to the nearest tenth 51.3 or 51.4? **51.3**
9. 57.658 to the nearest tenth 57.6 or 57.7? **57.7**
10. 22.299 to the nearest hundredth 22.29 or 22.30? **22.30**
11. 74.964 to the nearest hundredth 74.96 or 74.97? **74.96**
12. 94.568 to the nearest tenth 94.5 or 94.6? **94.6**
13. 76.115 to the nearest hundredth 76.11 or 76.12? **76.12**
14. 58.498 to the nearest whole number 58 or 59? **58**
15. 29.905 to the nearest tenth 29.9 or 30.0? **29.9**
16. 75.615 to the nearest tenth 75.6 or 75.7? **75.6**
17. 36.696 to the nearest hundredth 36.69 or 36.70? **36.70**
18. 59.351 to the nearest tenth 59.3 or 59.4? **59.4**

Answer key

Decimals

1. **2.6 + 7.1 = 9.7**
2. **5.9 − 1.8 = 4.1**
3. **4.3 + 9.3 = 13.6**
4. **8.8 − 1.5 = 7.3**
5. **5.6 + 0.1 = 5.7**
6. **9.3 − 1.6 = 7.7**
7. **8.8 + 0.8 = 9.6**
8. **9.1 − 4.8 = 4.3**
9. **9.8 + 6.8 = 16.6**
10. **4.6 − 1.5 = 3.1**
11. **7.1 + 5.5 = 12.6**
12. **5.6 − 1.9 = 3.7**
13. **9.6 + 8.3 = 17.9**
14. **7.4 − 6.8 = 0.6**
15. **8.5 + 8.8 = 17.3**
16. **8.4 − 7.9 = 0.5**
17. **6.7 + 5.4 = 12.1**
18. **1.9 − 0.2 = 1.7**
19. **9.7 + 5.6 = 15.3**
20. **6.2 − 3.6 = 2.6**

Answer key

Decimals

1. **5.7 + 0.45 = 6.15**
2. **5.91 − 1.4 = 4.51**
3. **8.5 + 2.96 = 11.46**
4. **8.87 − 1.5 = 7.37**
5. **6.07 + 0.9 = 6.97**
6. **8.82 − 1.6 = 7.22**
7. **8.9 + 0.46 = 9.36**
8. **9.84 − 6.8 = 3.04**
9. **5.2 + 5.77 = 10.97**
10. **5.64 − 5.5 = 0.14**
11. **9.9 + 5.82 = 15.72**
12. **7.44 − 6.8 = 0.64**
13. **9.94 + 0.8 = 10.74**
14. **8.83 − 7.9 = 0.93**
15. **3.62 + 6.5 = 10.12**
16. **7.9 − 0.97 = 6.93**
17. **1.2 + 9.97 = 11.17**
18. **6.2 − 5.65 = 0.55**
19. **5.2 + 2.37 = 7.57**
20. **7.7 − 1.26 = 6.44**

Multiplying decimals: answer key

Each answer in colour, and under it the step that places the point.

1. **4.94 × 5 = 24.7**
   494 × 5 = 2,470; 4.94 has 2 decimal places: 24.70
2. **0.02 × 3 = 0.06**
   2 × 3 = 6; 0.02 has 2 decimal places
3. **3.12 × 2 = 6.24**
   312 × 2 = 624; 3.12 has 2 decimal places
4. **56.9 × 7 = 398.3**
   569 × 7 = 3,983; 56.9 has 1 decimal place
5. **3.39 × 5 = 16.95**
   339 × 5 = 1,695; 3.39 has 2 decimal places
6. **0.3 × 5 = 1.5**
   3 × 5 = 15; 0.3 has 1 decimal place
7. **32.9 × 14 = 460.6**
   329 × 14 = 4,606; 32.9 has 1 decimal place
8. **0.04 × 2 = 0.08**
   4 × 2 = 8; 0.04 has 2 decimal places
9. **25.5 × 36 = 918**
   255 × 36 = 9,180; 25.5 has 1 decimal place: 918.0
10. **78.4 × 17 = 1,332.8**
    784 × 17 = 13,328; 78.4 has 1 decimal place
11. **3.41 × 27 = 92.07**
    341 × 27 = 9,207; 3.41 has 2 decimal places
12. **0.03 × 2 = 0.06**
    3 × 2 = 6; 0.03 has 2 decimal places

Multiplying decimals: answer key

Each answer in colour, and under it the step that places the point.

1. **1.3 × 4.9 = 6.37**

   13 × 49 = 637; 1 + 1 = 2 decimal places

2. **5.5 × 5.8 = 31.9**

   55 × 58 = 3,190; 1 + 1 = 2 decimal places: 31.90

3. **9.4 × 7.9 = 74.26**

   94 × 79 = 7,426; 1 + 1 = 2 decimal places

4. **0.2 × 0.3 = 0.06**

   2 × 3 = 6; 1 + 1 = 2 decimal places

5. **0.3 × 0.2 = 0.06**

   3 × 2 = 6; 1 + 1 = 2 decimal places

6. **6.2 × 3.7 = 22.94**

   62 × 37 = 2,294; 1 + 1 = 2 decimal places

7. **0.4 × 5.6 = 2.24**

   4 × 56 = 224; 1 + 1 = 2 decimal places

8. **2.4 × 2.9 = 6.96**

   24 × 29 = 696; 1 + 1 = 2 decimal places

9. **8.1 × 6.2 = 50.22**

   81 × 62 = 5,022; 1 + 1 = 2 decimal places

10. **7.5 × 2.4 = 18**

    75 × 24 = 1,800; 1 + 1 = 2 decimal places: 18.00

11. **7.1 × 7.1 = 50.41**

    71 × 71 = 5,041; 1 + 1 = 2 decimal places

12. **0.2 × 0.2 = 0.04**

    2 × 2 = 4; 1 + 1 = 2 decimal places

Multiplying by 10, 100 and 1,000: answer key

Each answer, and how far the point moved.

1. **7.903 × 1,000 = 7,903**
   The point moves 3 places to the right
2. **2.5 × 100 = 250**
   The point moves 2 places to the right
3. **3.839 × 100 = 383.9**
   The point moves 2 places to the right
4. **0.5 × 100 = 50**
   The point moves 2 places to the right
5. **412.5 × 1,000 = 412,500**
   The point moves 3 places to the right
6. **4.733 × 100 = 473.3**
   The point moves 2 places to the right
7. **9.2 × 1,000 = 9,200**
   The point moves 3 places to the right
8. **6.353 × 1,000 = 6,353**
   The point moves 3 places to the right
9. **0.18 × 1,000 = 180**
   The point moves 3 places to the right
10. **2.431 × 100 = 243.1**
    The point moves 2 places to the right
11. **267.6 × 100 = 26,760**
    The point moves 2 places to the right
12. **5.4 × 1,000 = 5,400**
    The point moves 3 places to the right
13. **139.2 × 100 = 13,920**
    The point moves 2 places to the right
14. **0.09 × 1,000 = 90**
    The point moves 3 places to the right
15. **9.23 × 10 = 92.3**
    The point moves 1 place to the right
16. **448.5 × 1,000 = 448,500**
    The point moves 3 places to the right
17. **5.3 × 1,000 = 5,300**
    The point moves 3 places to the right
18. **26.04 × 1,000 = 26,040**
    The point moves 3 places to the right
19. **0.92 × 10 = 9.2**
    The point moves 1 place to the right
20. **5.131 × 100 = 513.1**
    The point moves 2 places to the right
21. **2.206 × 100 = 220.6**
    The point moves 2 places to the right
22. **4.2 × 1,000 = 4,200**
    The point moves 3 places to the right
23. **38.62 × 10 = 386.2**
    The point moves 1 place to the right
24. **0.01 × 1,000 = 10**
    The point moves 3 places to the right
25. **10.3 × 1,000 = 10,300**
    The point moves 3 places to the right
26. **2.23 × 100 = 223**
    The point moves 2 places to the right
27. **4.1 × 100 = 410**
    The point moves 2 places to the right
28. **4.09 × 10 = 40.9**
    The point moves 1 place to the right
29. **0.36 × 10 = 3.6**
    The point moves 1 place to the right
30. **46.42 × 1,000 = 46,420**
    The point moves 3 places to the right

Dividing decimals: answer key

Each answer in colour, and under it the step that places the point.

1. **24.5 ÷ 7 = 3.5**
   Check: 3.5 × 7 = 24.5
2. **16.78 ÷ 2 = 8.39**
   Check: 8.39 × 2 = 16.78
3. **6.16 ÷ 8 = 0.77**
   Check: 0.77 × 8 = 6.16
4. **16.48 ÷ 8 = 2.06**
   Check: 2.06 × 8 = 16.48
5. **108.9 ÷ 9 = 12.1**
   Check: 12.1 × 9 = 108.9
6. **35 ÷ 4 = 8.75**
   35 = 35.00, then 35.00 ÷ 4
7. **126.4 ÷ 2 = 63.2**
   Check: 63.2 × 2 = 126.4
8. **1.08 ÷ 6 = 0.18**
   Check: 0.18 × 6 = 1.08
9. **12.06 ÷ 3 = 4.02**
   Check: 4.02 × 3 = 12.06
10. **15.1 ÷ 2 = 7.55**
    15.1 = 15.10, then 15.10 ÷ 2
11. **2.34 ÷ 9 = 0.26**
    Check: 0.26 × 9 = 2.34
12. **25.68 ÷ 8 = 3.21**
    Check: 3.21 × 8 = 25.68

Adding fractions with unlike denominators: answer key

Each answer in colour, with the working before it.

1. $\frac{1}{5} + \frac{1}{4} = \frac{4}{20} + \frac{5}{20} = \frac{9}{20}$
2. $\frac{3}{4} + \frac{1}{10} = \frac{15}{20} + \frac{2}{20} = \frac{17}{20}$
3. $\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$
4. $\frac{1}{3} + \frac{1}{6} = \frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$
5. $\frac{1}{2} + \frac{1}{6} = \frac{3}{6} + \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$
6. $\frac{1}{4} + \frac{1}{6} = \frac{3}{12} + \frac{2}{12} = \frac{5}{12}$
7. $\frac{2}{3} + \frac{7}{9} = \frac{6}{9} + \frac{7}{9} = \frac{13}{9} = 1\frac{4}{9}$
8. $\frac{1}{8} + \frac{1}{4} = \frac{1}{8} + \frac{2}{8} = \frac{3}{8}$
9. $\frac{3}{10} + \frac{1}{3} = \frac{9}{30} + \frac{10}{30} = \frac{19}{30}$
10. $\frac{7}{9} + \frac{3}{4} = \frac{28}{36} + \frac{27}{36} = \frac{55}{36} = 1\frac{19}{36}$
11. $\frac{1}{8} + \frac{1}{6} = \frac{3}{24} + \frac{4}{24} = \frac{7}{24}$
12. $\frac{3}{5} + \frac{3}{10} = \frac{6}{10} + \frac{3}{10} = \frac{9}{10}$
13. $\frac{1}{4} + \frac{7}{10} = \frac{5}{20} + \frac{14}{20} = \frac{19}{20}$
14. $\frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{2}{4} = \frac{3}{4}$
15. $\frac{4}{5} + \frac{3}{4} = \frac{16}{20} + \frac{15}{20} = \frac{31}{20} = 1\frac{11}{20}$
16. $\frac{5}{9} + \frac{3}{4} = \frac{20}{36} + \frac{27}{36} = \frac{47}{36} = 1\frac{11}{36}$
17. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
18. $\frac{1}{12} + \frac{2}{3} = \frac{1}{12} + \frac{8}{12} = \frac{9}{12} = \frac{3}{4}$
19. $\frac{1}{5} + \frac{2}{3} = \frac{3}{15} + \frac{10}{15} = \frac{13}{15}$
20. $\frac{1}{6} + \frac{1}{2} = \frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3}$

Subtracting fractions with unlike denominators: answer key

Each answer in colour, with the working before it.

1. $\frac{7}{12} - \frac{3}{8} = \frac{14}{24} - \frac{9}{24} = \frac{5}{24}$
2. $\frac{2}{3} - \frac{5}{12} = \frac{8}{12} - \frac{5}{12} = \frac{3}{12} = \frac{1}{4}$
3. $\frac{1}{3} - \frac{1}{9} = \frac{3}{9} - \frac{1}{9} = \frac{2}{9}$
4. $\frac{1}{2} - \frac{1}{8} = \frac{4}{8} - \frac{1}{8} = \frac{3}{8}$
5. $\frac{5}{6} - \frac{1}{9} = \frac{15}{18} - \frac{2}{18} = \frac{13}{18}$
6. $\frac{5}{6} - \frac{2}{5} = \frac{25}{30} - \frac{12}{30} = \frac{13}{30}$
7. $\frac{1}{6} - \frac{1}{10} = \frac{5}{30} - \frac{3}{30} = \frac{2}{30} = \frac{1}{15}$
8. $\frac{3}{4} - \frac{7}{10} = \frac{15}{20} - \frac{14}{20} = \frac{1}{20}$
9. $\frac{1}{3} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$
10. $\frac{2}{3} - \frac{3}{8} = \frac{16}{24} - \frac{9}{24} = \frac{7}{24}$
11. $\frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$
12. $\frac{2}{3} - \frac{1}{5} = \frac{10}{15} - \frac{3}{15} = \frac{7}{15}$
13. $\frac{1}{6} - \frac{1}{8} = \frac{4}{24} - \frac{3}{24} = \frac{1}{24}$
14. $\frac{8}{9} - \frac{1}{6} = \frac{16}{18} - \frac{3}{18} = \frac{13}{18}$
15. $\frac{1}{2} - \frac{1}{6} = \frac{3}{6} - \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$
16. $\frac{1}{5} - \frac{1}{10} = \frac{2}{10} - \frac{1}{10} = \frac{1}{10}$
17. $\frac{2}{3} - \frac{5}{8} = \frac{16}{24} - \frac{15}{24} = \frac{1}{24}$
18. $\frac{4}{5} - \frac{1}{2} = \frac{8}{10} - \frac{5}{10} = \frac{3}{10}$
19. $\frac{5}{6} - \frac{1}{8} = \frac{20}{24} - \frac{3}{24} = \frac{17}{24}$
20. $\frac{5}{6} - \frac{1}{2} = \frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$

Adding and subtracting mixed numbers: answer key

Each answer in colour, with the working before it.

1. $4\frac{1}{5} - 1\frac{1}{2} = 4\frac{2}{10} - 1\frac{5}{10} = 3\frac{12}{10} - 1\frac{5}{10}$
   $= 2\frac{7}{10}$

2. $4\frac{4}{5} + 1\frac{1}{2} = 4\frac{8}{10} + 1\frac{5}{10} = 5\frac{13}{10} = 6\frac{3}{10}$

3. $2\frac{5}{6} + 3\frac{3}{8} = 2\frac{20}{24} + 3\frac{9}{24} = 5\frac{29}{24}$
   $= 6\frac{5}{24}$

4. $6\frac{3}{4} - 1\frac{1}{3} = 6\frac{9}{12} - 1\frac{4}{12} = 5\frac{5}{12}$

5. $5\frac{7}{8} - 1\frac{1}{4} = 5\frac{7}{8} - 1\frac{2}{8} = 4\frac{5}{8}$

6. $3\frac{7}{8} + 4\frac{2}{3} = 3\frac{21}{24} + 4\frac{16}{24} = 7\frac{37}{24}$
   $= 8\frac{13}{24}$

7. $4\frac{1}{3} + 3\frac{3}{5} = 4\frac{5}{15} + 3\frac{9}{15} = 7\frac{14}{15}$

8. $3\frac{2}{5} + 4\frac{1}{4} = 3\frac{8}{20} + 4\frac{5}{20} = 7\frac{13}{20}$

9. $6\frac{1}{3} - 4\frac{3}{5} = 6\frac{5}{15} - 4\frac{9}{15} = 5\frac{20}{15} - 4\frac{9}{15}$
   $= 1\frac{11}{15}$

10. $7\frac{1}{8} - 4\frac{1}{2} = 7\frac{1}{8} - 4\frac{4}{8} = 6\frac{9}{8} - 4\frac{4}{8}$
    $= 2\frac{5}{8}$

11. $5\frac{2}{3} + 2\frac{1}{2} = 5\frac{4}{6} + 2\frac{3}{6} = 7\frac{7}{6} = 8\frac{1}{6}$

12. $3\frac{1}{2} - 2\frac{3}{8} = 3\frac{4}{8} - 2\frac{3}{8} = 1\frac{1}{8}$

13. $6\frac{7}{8} - 5\frac{2}{3} = 6\frac{21}{24} - 5\frac{16}{24} = 1\frac{5}{24}$

14. $6\frac{1}{2} - 5\frac{5}{8} = 6\frac{4}{8} - 5\frac{5}{8} = 5\frac{12}{8} - 5\frac{5}{8}$
    $= \frac{7}{8}$

15. $3\frac{1}{3} + 1\frac{1}{5} = 3\frac{5}{15} + 1\frac{3}{15} = 4\frac{8}{15}$

16. $1\frac{3}{8} + 3\frac{1}{2} = 1\frac{3}{8} + 3\frac{4}{8} = 4\frac{7}{8}$

17. $1\frac{1}{3} + 2\frac{7}{8} = 1\frac{8}{24} + 2\frac{21}{24} = 3\frac{29}{24} = 4\frac{5}{24}$

18. $7\frac{1}{4} - 1\frac{3}{5} = 7\frac{5}{20} - 1\frac{12}{20} = 6\frac{25}{20} - 1\frac{12}{20}$
    $= 5\frac{13}{20}$

19. $1\frac{3}{4} + 4\frac{2}{3} = 1\frac{9}{12} + 4\frac{8}{12} = 5\frac{17}{12} = 6\frac{5}{12}$

20. $3\frac{3}{8} - 2\frac{1}{2} = 3\frac{3}{8} - 2\frac{4}{8} = 2\frac{11}{8} - 2\frac{4}{8}$
    $= \frac{7}{8}$

Multiplying fractions: answer key

Each answer in colour, with the working before it.

1. $\frac{5}{9} \times \frac{1}{9} = \frac{5}{81}$
2. $\frac{4}{9} \times \frac{5}{6} = \frac{20}{54} = \frac{10}{27}$
3. $\frac{2}{5} \times \frac{2}{9} = \frac{4}{45}$
4. $\frac{5}{9} \times \frac{1}{2} = \frac{5}{18}$
5. $\frac{3}{4} \times \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$
6. $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$
7. $\frac{1}{10} \times \frac{1}{2} = \frac{1}{20}$
8. $\frac{1}{8} \times \frac{8}{9} = \frac{8}{72} = \frac{1}{9}$
9. $\frac{1}{2} \times \frac{3}{10} = \frac{3}{20}$
10. $\frac{2}{3} \times \frac{3}{8} = \frac{6}{24} = \frac{1}{4}$
11. $\frac{1}{2} \times \frac{5}{12} = \frac{5}{24}$
12. $\frac{3}{8} \times \frac{2}{3} = \frac{6}{24} = \frac{1}{4}$
13. $\frac{1}{2} \times \frac{7}{9} = \frac{7}{18}$
14. $\frac{3}{8} \times \frac{1}{4} = \frac{3}{32}$
15. $\frac{1}{4} \times \frac{8}{9} = \frac{8}{36} = \frac{2}{9}$
16. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
17. $\frac{5}{9} \times \frac{3}{4} = \frac{15}{36} = \frac{5}{12}$
18. $\frac{5}{6} \times \frac{1}{2} = \frac{5}{12}$
19. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$
20. $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$

Multiplying mixed numbers: answer key

Each answer in colour, with the working before it.

1. $2\frac{2}{3} \times 1\frac{1}{2} = \frac{8}{3} \times \frac{3}{2} = \frac{24}{6} = 4$
2. $2\frac{2}{3} \times 2\frac{3}{5} = \frac{8}{3} \times \frac{13}{5} = \frac{104}{15} = 6\frac{14}{15}$
3. $1\frac{1}{5} \times 2\frac{1}{2} = \frac{6}{5} \times \frac{5}{2} = \frac{30}{10} = 3$
4. $1\frac{1}{3} \times \frac{5}{6} = \frac{4}{3} \times \frac{5}{6} = \frac{20}{18} = \frac{10}{9} = 1\frac{1}{9}$
5. $1\frac{2}{3} \times \frac{1}{2} = \frac{5}{3} \times \frac{1}{2} = \frac{5}{6}$
6. $2\frac{3}{5} \times 1\frac{2}{3} = \frac{13}{5} \times \frac{5}{3} = \frac{65}{15} = \frac{13}{3} = 4\frac{1}{3}$
7. $2\frac{1}{5} \times \frac{2}{3} = \frac{11}{5} \times \frac{2}{3} = \frac{22}{15} = 1\frac{7}{15}$
8. $2\frac{1}{5} \times 3\frac{2}{3} = \frac{11}{5} \times \frac{11}{3} = \frac{121}{15} = 8\frac{1}{15}$
9. $3\frac{5}{6} \times \frac{2}{3} = \frac{23}{6} \times \frac{2}{3} = \frac{46}{18} = \frac{23}{9} = 2\frac{5}{9}$
10. $3\frac{2}{5} \times 1\frac{2}{3} = \frac{17}{5} \times \frac{5}{3} = \frac{85}{15} = \frac{17}{3} = 5\frac{2}{3}$
11. $3\frac{1}{5} \times 2\frac{1}{2} = \frac{16}{5} \times \frac{5}{2} = \frac{80}{10} = 8$
12. $3\frac{1}{2} \times 1\frac{1}{4} = \frac{7}{2} \times \frac{5}{4} = \frac{35}{8} = 4\frac{3}{8}$
13. $3\frac{1}{3} \times 2\frac{1}{3} = \frac{10}{3} \times \frac{7}{3} = \frac{70}{9} = 7\frac{7}{9}$
14. $1\frac{1}{3} \times \frac{2}{3} = \frac{4}{3} \times \frac{2}{3} = \frac{8}{9}$
15. $2\frac{2}{3} \times 2\frac{1}{4} = \frac{8}{3} \times \frac{9}{4} = \frac{72}{12} = 6$
16. $3\frac{1}{3} \times \frac{1}{6} = \frac{10}{3} \times \frac{1}{6} = \frac{10}{18} = \frac{5}{9}$
17. $3\frac{2}{5} \times 3\frac{1}{2} = \frac{17}{5} \times \frac{7}{2} = \frac{119}{10} = 11\frac{9}{10}$
18. $2\frac{1}{5} \times \frac{5}{6} = \frac{11}{5} \times \frac{5}{6} = \frac{55}{30} = \frac{11}{6} = 1\frac{5}{6}$
19. $2\frac{1}{2} \times 1\frac{5}{6} = \frac{5}{2} \times \frac{11}{6} = \frac{55}{12} = 4\frac{7}{12}$
20. $1\frac{1}{3} \times \frac{2}{5} = \frac{4}{3} \times \frac{2}{5} = \frac{8}{15}$

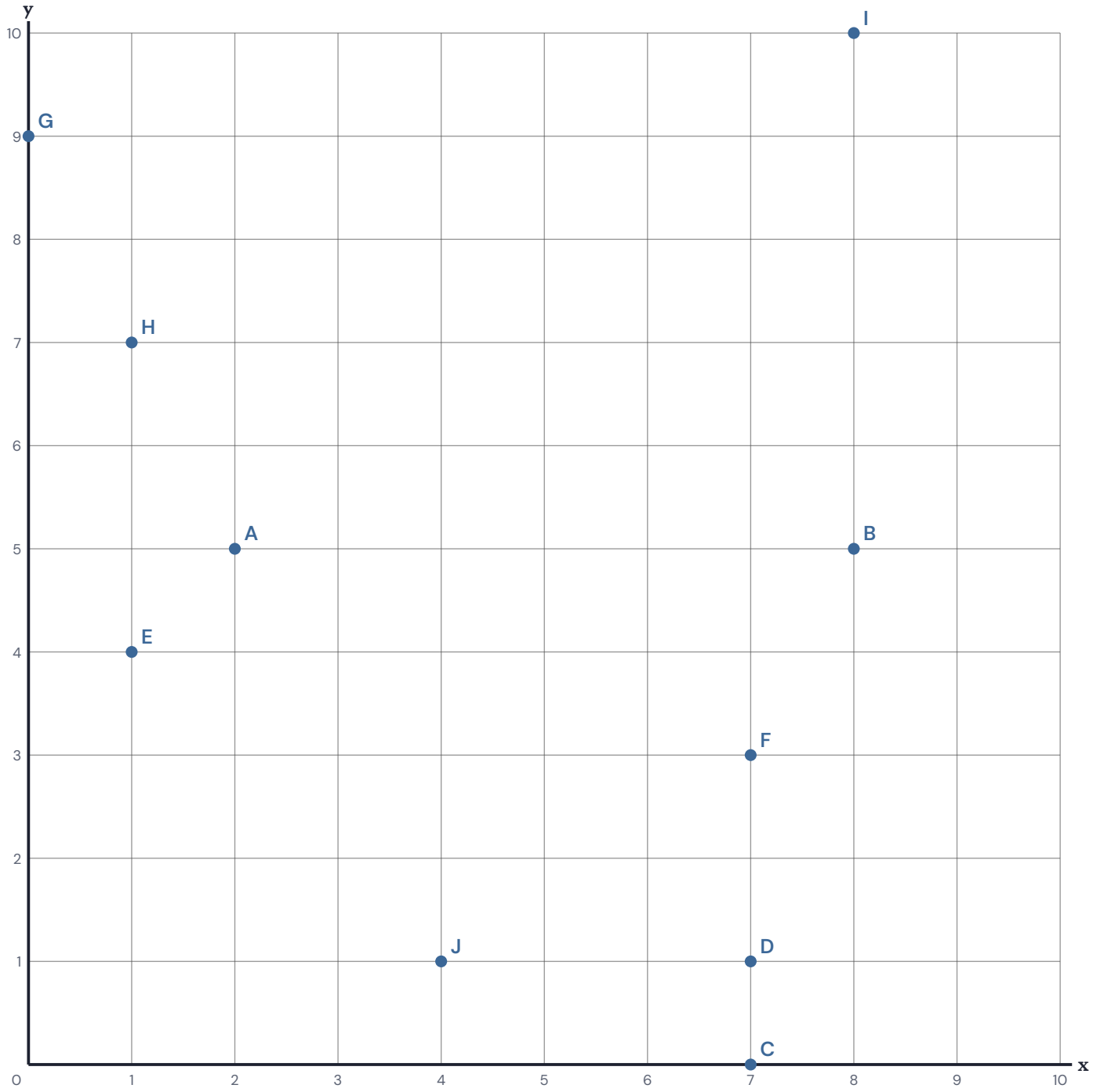
Dividing unit fractions and whole numbers: answer key

Each answer in colour, with the working before it.

1. $7 \div \frac{1}{9} = 7 \times 9 = 63$
2. $5 \div \frac{1}{5} = 5 \times 5 = 25$
3. $\frac{1}{9} \div 7 = \frac{1}{9} \times \frac{1}{7} = \frac{1}{63}$
4. $3 \div \frac{1}{5} = 3 \times 5 = 15$
5. $10 \div \frac{1}{7} = 10 \times 7 = 70$
6. $\frac{1}{5} \div 2 = \frac{1}{5} \times \frac{1}{2} = \frac{1}{10}$
7. $\frac{1}{7} \div 10 = \frac{1}{7} \times \frac{1}{10} = \frac{1}{70}$
8. $5 \div \frac{1}{9} = 5 \times 9 = 45$
9. $\frac{1}{4} \div 9 = \frac{1}{4} \times \frac{1}{9} = \frac{1}{36}$
10. $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$
11. $\frac{1}{8} \div 2 = \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$
12. $\frac{1}{7} \div 8 = \frac{1}{7} \times \frac{1}{8} = \frac{1}{56}$
13. $\frac{1}{6} \div 4 = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$
14. $\frac{1}{3} \div 4 = \frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$
15. $\frac{1}{6} \div 8 = \frac{1}{6} \times \frac{1}{8} = \frac{1}{48}$
16. $2 \div \frac{1}{9} = 2 \times 9 = 18$
17. $6 \div \frac{1}{3} = 6 \times 3 = 18$
18. $4 \div \frac{1}{5} = 4 \times 5 = 20$
19. $8 \div \frac{1}{7} = 8 \times 7 = 56$
20. $10 \div \frac{1}{8} = 10 \times 8 = 80$

Plot the points: answer key

Each point plotted in colour, with its letter.



A (2, 5)

B (8, 5)

C (7, 0)

D (7, 1)

E (1, 4)

F (7, 3)

G (0, 9)

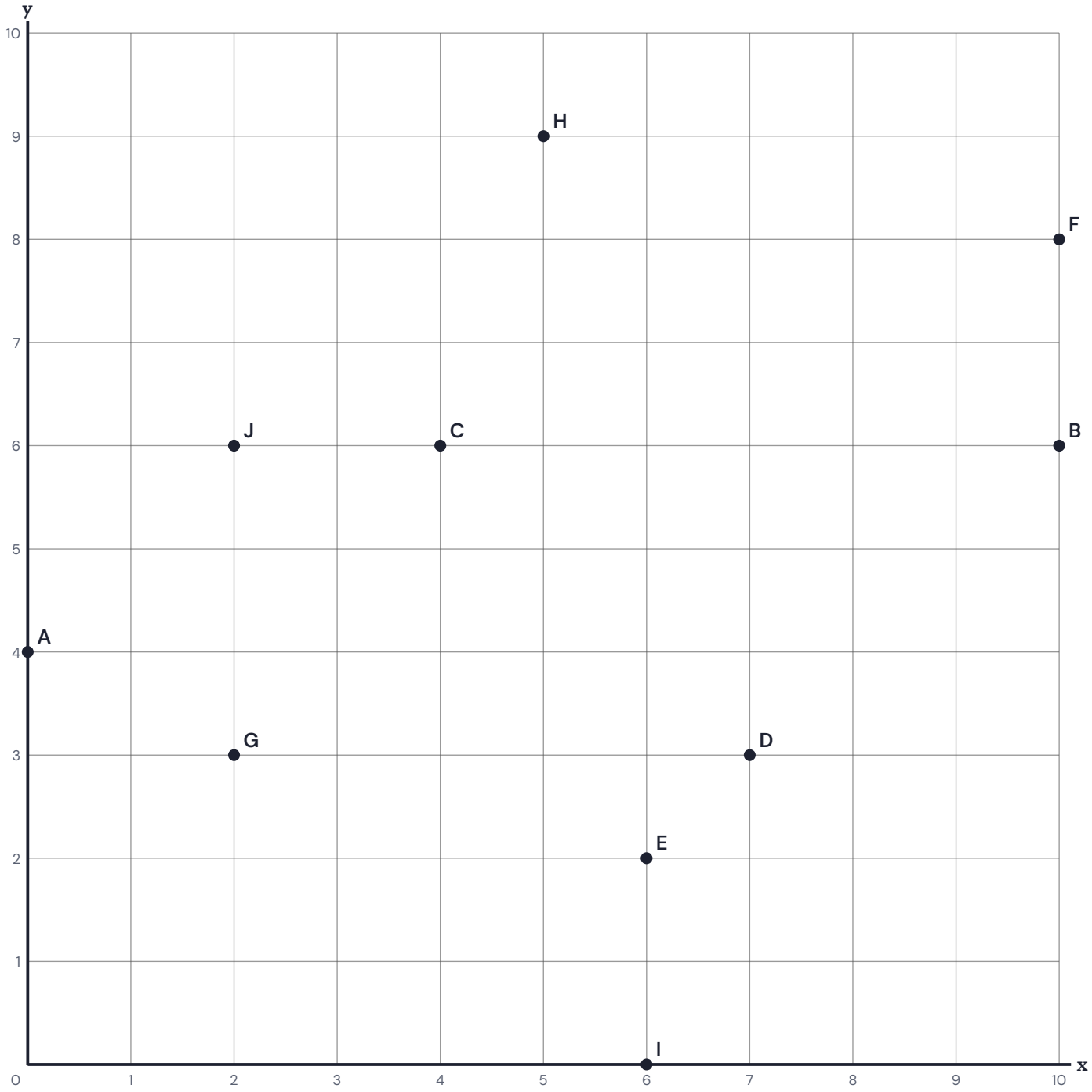
H (1, 7)

I (8, 10)

J (4, 1)

Write the coordinates: answer key

The coordinates in colour.



A (0, 4)

B (10, 6)

C (4, 6)

D (7, 3)

E (6, 2)

F (10, 8)

G (2, 3)

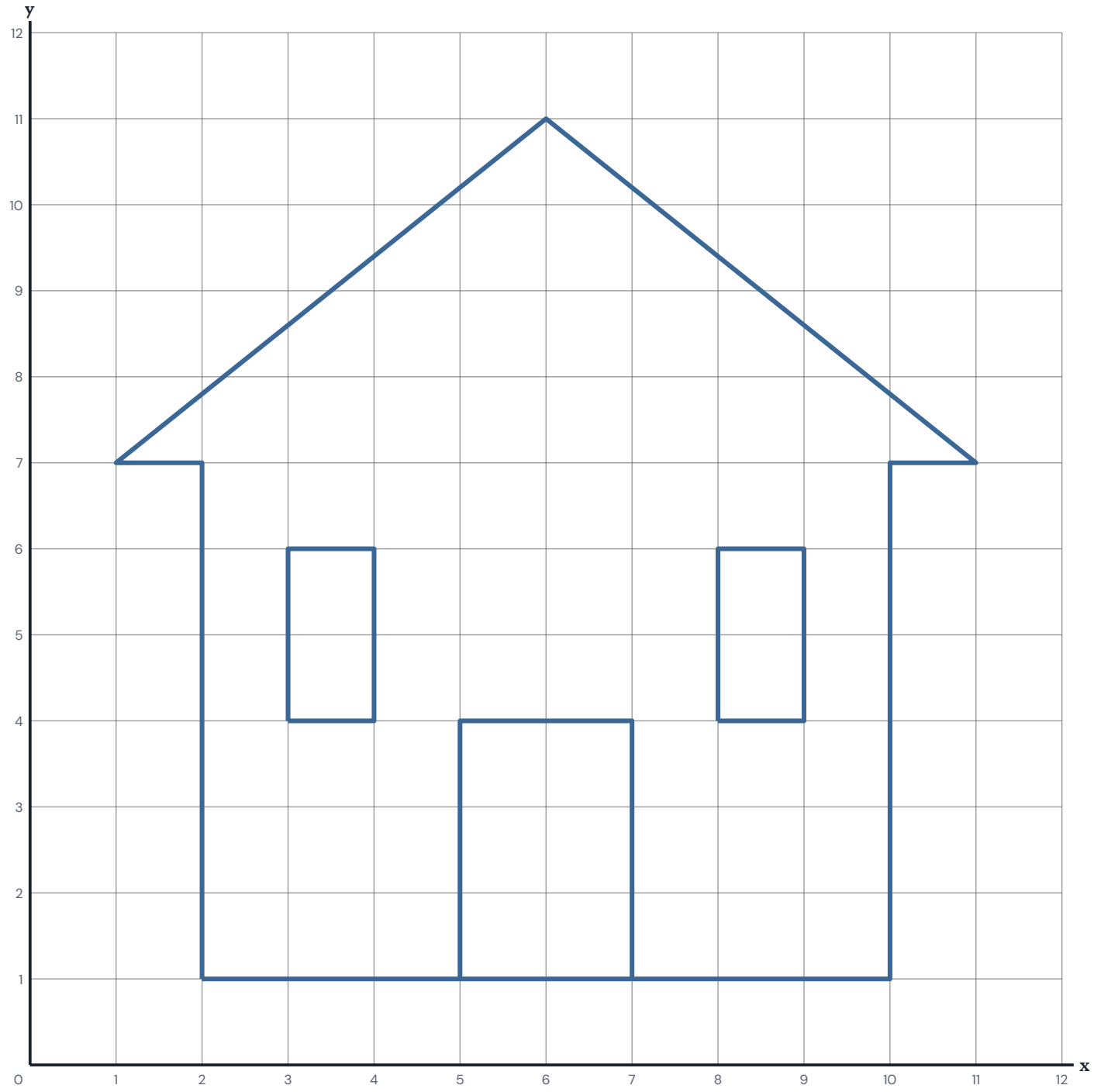
H (5, 9)

I (6, 0)

J (2, 6)

Mystery picture: answer key

The picture is a house.



1. (2, 1)
2. (2, 7)
3. (1, 7)
4. (6, 11)
5. (11, 7)
6. (10, 7)
7. (10, 1)

8. (2, 1)

Lift your pencil

9. (5, 1)
10. (5, 4)
11. (7, 4)
12. (7, 1)

Lift your pencil

13. (8, 4)
14. (8, 6)
15. (9, 6)
16. (9, 4)
17. (8, 4)

Lift your pencil

18. (3, 4)
19. (3, 6)
20. (4, 6)
21. (4, 4)
22. (3, 4)