

Place value and rounding

Compare large numbers and round them.

Name: _____ Date: _____

1. Write 407,016 in words.

2. What is the value of 8 in 582,104?

3. Order these from smallest to largest: 90,510; 95,010; 90,501.

4. Round 364,782 to the nearest 10,000.

5. Round 695,120 to the nearest 100,000.

6. A town has 28,750 people. Another has 10,000 more. How many live in the second town?

7. The temperature is -3°C . It rises by 8°C . What is it now?

8. Write 946 as a Roman numeral.

Answers: Place value and rounding

Try the questions first. Use these notes to check your thinking.

1. **Four hundred and seven thousand and sixteen.**

Read the thousands first, then the remaining sixteen.

2. **80,000**

The 8 is in the ten-thousands column.

3. **90,501; 90,510; 95,010**

Compare the first place where the digits differ.

4. **360,000**

The thousands digit is 4, so round down.

5. **700,000**

It is closer to 700,000 than 600,000.

6. **38,750**

Add 10,000 to 28,750.

7. **5 °C**

Move eight steps up from negative three.

8. **CMXLVI**

900 is CM, 40 is XL and 6 is VI.

Original Trace Learn questions. Curriculum scope: maths programmes of study, Department for Education.
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Addition, subtraction, multiplication and division

Calculate with whole numbers and check results.

Name: _____ Date: _____

1. Calculate $24,786 + 18,957$.

2. Calculate $60,004 - 27,586$.

3. Calculate 328×6 .

4. Calculate 246×23 .

5. Calculate 3,456 divided by 8.

6. Calculate 7.36×100 .

7. A library buys 18 boxes of 24 books. How many books is that?

8. A coach holds 48 people. Five coaches are booked for 217 people. How many empty seats are there?

Answers: Addition, subtraction, multiplication and division

Try the questions first. Use these notes to check your thinking.

1. **43,743**

Add each column, carrying when needed.

2. **32,418**

Exchange across the zeros before subtracting.

3. **1,968**

Multiply 300, 20 and 8 by 6, then add.

4. **5,658**

$246 \times 20 = 4,920$ and $246 \times 3 = 738$.

5. **432**

Check: $432 \times 8 = 3,456$.

6. **736**

Multiplying by 100 makes each digit worth 100 times as much: $7.36 \times 100 = 736$.

7. **432 books**

$18 \times 24 = 432$.

8. **23 seats**

$5 \times 48 = 240$; $240 - 217 = 23$.

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Factors, primes and square numbers

Use factors, multiples, primes and square numbers.

Name: _____ Date: _____

1. List every factor of 24.

2. Which are prime: 9, 11, 15, 17?

3. Find the lowest positive common multiple of 6 and 8.

4. Calculate 7 squared.

5. Calculate 3 cubed.

6. Is 1 prime? Explain.

7. Find the missing factor: $12 \times \underline{\quad} = 96$.

8. Two lights flash every 4 seconds and 10 seconds. They flash together now. After how many seconds do they next flash together?

Answers: Factors, primes and square numbers

Try the questions first. Use these notes to check your thinking.

1. **1, 2, 3, 4, 6, 8, 12, 24**

Each number divides 24 exactly.

2. **11 and 17**

Each has exactly two factors: 1 and itself.

3. **24**

6×4 and 8×3 both equal 24.

4. **49**

$7 \times 7 = 49$.

5. **27**

$3 \times 3 \times 3 = 27$.

6. **No. It has only one factor.**

A prime number must have exactly two factors.

7. **8**

96 divided by 12 = 8.

8. **20 seconds**

20 is the first common multiple of 4 and 10.

Original Trace Learn questions. Curriculum scope: maths programmes of study, Department for Education.
[tracelearn.app/worksheets/year-5-factors/](https://www.tracelearn.app/worksheets/year-5-factors/)

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Fractions, decimals and percentages

Connect fractions, decimals and percentages.

Name: _____ Date: _____

1. Complete: $\frac{3}{5} = \frac{\quad}{20}$.

2. Calculate $\frac{2}{3} + \frac{1}{6}$.

3. Calculate $\frac{7}{10} - \frac{1}{5}$.

4. Write $\frac{11}{4}$ as a mixed number.

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

6. Write 0.375 as a fraction with denominator 1,000.

7. Find 25% of 80.

8. Order from smallest to largest: 0.6; 55%; $\frac{1}{2}$.

Answers: Fractions, decimals and percentages

Try the questions first. Use these notes to check your thinking.

1. **12**

Multiply the numerator and denominator by 4.

2. **5/6**

$2/3 = 4/6$, then add $1/6$.

3. **1/2 or 5/10**

$1/5 = 2/10$, so $7/10 - 2/10 = 5/10$.

4. **2 3/4**

Two whole groups of four leave three quarters.

5. **6/5 or 1 1/5**

Three lots of $2/5$ make $6/5$.

6. **375/1,000**

There are 375 thousandths.

7. **20**

25% is one quarter; 80 divided by 4 = 20.

8. **1/2; 55%; 0.6**

They are 50%, 55% and 60%.

Original Trace Learn questions. Curriculum scope: maths programmes of study, Department for Education.
[tracelearn.app/worksheets/year-5-fractions/](https://www.tracelearn.app/worksheets/year-5-fractions/)

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Measurement, angles and timetables

Convert units, find area and read times.

Name: _____ Date: _____

1. Convert 3.4 km to metres.

2. Convert 2,750 ml to litres.

3. A rectangle is 8 cm long and 5 cm wide. Find its area.

4. Find the perimeter of that rectangle.

5. Three adjacent angles form a straight line. Two of them total 125 degrees. Find the third angle.

6. Four angles meet round a point. Three of them total 290 degrees. Find the fourth angle.

7. A train leaves at 14:38 and arrives at 15:17. How long is the journey?

8. A club starts at 16:20 and lasts 75 minutes. When does it finish?

Answers: Measurement, angles and timetables

Try the questions first. Use these notes to check your thinking.

1. **3,400 m**

There are 1,000 metres in a kilometre.

2. **2.75 litres**

Divide by 1,000.

3. **40 square centimetres**

Multiply 8 by 5.

4. **26 cm**

Add $8 + 5 + 8 + 5$.

5. **55 degrees**

$180 - 125 = 55$.

6. **70 degrees**

$360 - 290 = 70$.

7. **39 minutes**

22 minutes to 15:00, then 17 minutes more.

8. **17:35**

One hour brings you to 17:20, then add 15 minutes.

Original Trace Learn questions. Curriculum scope: maths programmes of study, Department for Education.
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