



SEPTEMBER BASELINE ASSESSMENT - FRIDAY FREEBIE BY SUCCESS INDEX

This is designed as a starting point – it is NOT a mock exam.

The aim is to gain a fuller understanding of where your child currently sits and, as a parent, to understand the style and range of maths which will be developed.

DO NOT PANIC if the score is low – this is the start of the journey. Keep this assessment for reference. You may help your child read it, BUT keep a record of how often you have to do this.

Date: _____

Time: 30 minutes – do not extend

Score: _____ / 40

Instructions

- Try every question.
- Work carefully rather than rushing.
- Show your working where you can.
- Do not use a calculator.
- If you are unsure, have a sensible guess and move on. Mark questions you guessed on with a “?”
- The assessment is designed to show what you already know – but more importantly what you do not yet know. Some questions will be challenging.



NUMBER & PLACE VALUE (10 marks)

1. Write the value of the digit 7 in the number:

47,382

Answer: _____ [1]

2. Put these numbers in order from **smallest to largest**:

3,405 3,450 3,054 3,540

Answer: _____ [1]

3. What is **10 times** 3,406?

Answer: _____ [1]

4. What is **100 times** 47?

Answer: _____ [1]

5. Round **6,748** to the nearest:

a) 10 = _____

b) 100 = _____ [2]



6. What number comes next?

2, 5, 11, 23, 47, _____

Answer: _____ [1]

7. Write the number represented by:

6 thousands + 4 hundreds + 8 tens + 3 ones

Answer: _____ [1]

8. Find the missing number:

$$\square \times 8 = 456$$

Answer: _____ [1]

9. Is **7,215** divisible by 5?

Circle: **YES / NO**

Explain how you know.

_____ [1]



CALCULATION, FRACTIONS, DECIMALS & PERCENTAGES (10 marks)

10.

$$347 + 286 = \underline{\hspace{2cm}} \quad [1]$$

11.

$$704 - 358 = \underline{\hspace{2cm}} \quad [1]$$

12.

$$36 \times 7 = \underline{\hspace{2cm}} \quad [1]$$



13.

$864 \div 8 =$ _____ **[1]**

14. Calculate:

$\frac{3}{4}$ of 48

Answer: _____ **[1]**

15. Which is larger?

$\frac{3}{5}$ or $\frac{2}{3}$

Answer: _____

Explain how you know.

_____ **[1]**



16. Write 0.6 as a fraction.

Answer: _____ **[1]**

17. Calculate:

$4.7 + 2.85 =$

Answer: _____ **[1]**

18. Find 25% of 80.

Answer: _____ **[1]**



19. A shop sells a game for £24.

It is reduced by **£6**.

What percentage of the original price has been taken off?

Answer: _____ [1]

MEASURE, SHAPE & GEOMETRY (10 marks)

20. How many centimetres are in **2.4 metres**?

Answer: _____ [1]

21. Convert:

3 kg 250 g = _____ g

Answer: _____ [1]



22. A film starts at **2:35 pm** and finishes at **4:10 pm**.

How long is the film?

Answer: _____ **[1]**

23. A rectangle has a length of **9 cm** and a width of **4 cm**.

Find its perimeter.

Answer: _____ **[1]**

24. Find the area of the same rectangle.

Answer: _____ **[1]**



25. How many degrees are in a right angle?

Answer: _____ **[1]**

26. One angle in a triangle is **65°** and another is **48°**.

Find the third angle.

Answer: _____ **[1]**

27. Name this type of triangle:

A triangle with **three equal sides**.

Answer: _____ **[1]**



28. A square has an area of **81 cm²**.

What is the length of one side?

Answer: _____ **[1]**

29. A bottle contains **1.5 litres** of water.

How many millilitres is this?

Answer: _____ **[1]**

PROBLEM SOLVING & MATHEMATICAL REASONING (10 marks)

30. Sarah has £20. She buys a book for £7.50 and a pen for £2.80.

How much money does she have left?

Answer: £_____ **[1]**



31. There are 28 children in a class. **3/7** of the children walk to school.

How many children walk to school?

Answer: _____ **[1]**

32. A coach can carry 45 children. There are 137 children going on a school trip.

How many coaches are needed?

Answer: _____ **[1]**

33. A packet contains 6 pencils. Each pencil costs 35p.

How much do 3 packets cost?

Answer: £_____ **[1]**



34. Jack thinks of a number. He multiplies it by 4 and then adds 7.

His answer is 39.

What was his starting number?

Answer: _____ **[1]**

35. The numbers below follow a pattern:

5, 9, 17, 33, 65, _____

What is the next number?

Answer: _____ **[1]**

36. A recipe for 4 people needs:

- 200 g flour
- 150 ml milk
- 2 eggs

How much flour would be needed for **10 people**?

Answer: _____ **[1]**



37. Tom, Amy and Ben share £36.

Tom gets twice as much as Amy.

Ben gets the same amount as Amy.

How much does Tom receive?

Answer: £_____ **[1]**

38. A school has 240 pupils.

35% of the pupils are in Year 6.

How many Year 6 pupils are there?

Answer: _____ **[1]**



39. A train leaves at **09:47**.

It takes **1 hour 38 minutes** to reach its destination.

What time does it arrive?

Answer: _____ **[1]**

40. This is a reasoning question.

A number is:

- greater than 30
- less than 60
- a multiple of 4
- an odd number

Can you find the number?

Answer: _____

Explain your answer.

_____ **[1]**



ANSWERS

Section 1 — Number & Place Value

1. 7,000
2. 3,054, 3,405, 3,450, 3,540
3. 34,060
4. 4,700
5. a) 6,750
b) 6,700
6. 95
7. 6,483
8. 57
9. Yes — numbers ending in 0 or 5 are divisible by 5.

Section score: /10

Section 2 — Calculation, Fractions, Decimals & Percentages

10. 633
11. 346
12. 252
13. 108
14. 36
15. $\frac{2}{3}$
16. $\frac{3}{5}$
17. 7.55
18. 20
19. 25%

Section score: /10



Section 3 — Measure, Shape & Geometry

- 20. 240 cm
- 21. 3,250 g
- 22. 1 hour 35 minutes
- 23. 26 cm
- 24. 36 cm²
- 25. 90°
- 26. 67°
- 27. Equilateral
- 28. 9 cm
- 29. 1,500 ml

Section score: /10

Section 4 — Problem Solving & Reasoning

- 30. £9.70
- 31. 12
- 32. 4 coaches
- 33. £6.30
- 34. 8
- 35. 129
- 36. 500 g
- 37. £18
- 38. 84
- 39. 11:25
- 40. **No such number exists** — every multiple of 4 is even.

Section score: /10



11+ Maths Assessment: DIAGNOSTIC PROFILE

This is the most important part and the start of your journey to understand your child's learning.

Area	Score	Percentage	Initial Assessment
Number & Place Value	/10	%	
Calculation, Fractions & Percentages	/10	%	
Measure & Geometry	/10	%	
Problem Solving & Reasoning	/10	%	
TOTAL	/40	%	



Remember this is only a snap shot!

9–10 / 10 — Secure

Your child is confident in this area. Begin introducing more challenging 11+ questions and focus on speed, accuracy and unfamiliar question formats.

7–8 / 10 — Developing

The core skills are reasonably secure, but there are gaps that should be addressed before moving too quickly into harder 11+ material.

5–6 / 10 — Needs Consolidation

There are noticeable gaps. This area should form part of your child's initial study programme.

0–4 / 10 — Priority Area

The child needs focused teaching and consolidation of the underlying skills before extensive 11+ practice.



OBSERVATION NOTES

DO NOT underestimate the importance of exam technique and confidence. This is equally as important to skills.

Speed:

☐ Very fast ☐ Good ☐ Average ☐ Slow ☐ Very slow

Accuracy:

☐ Excellent ☐ Good ☐ Some careless errors ☐ Frequent errors

Working:

☐ Clear ☐ Mostly clear ☐ Difficult to follow ☐ Little/no working

Mental maths:

☐ Strong ☐ Secure ☐ Developing ☐ Weak

Reading/understanding questions:

☐ Strong ☐ Secure ☐ Developing ☐ Weak

Reasoning:

☐ Strong ☐ Secure ☐ Developing ☐ Weak

Confidence:

☐ Very confident ☐ Confident ☐ Mixed ☐ Anxious/hesitant



NOW MAKE 3 PRIORITY AREAS FOR STUDY

Choose short, realistic targets which can be achieved in the next 4 weeks.

1. _____
2. _____
3. _____

IMPORTANT: WHAT TO LOOK FOR

Even if you have a tutor you will be working with your child and taking a lead role in the daily small learning activities. You must start to assess and understand the different areas.

The overall score is useful, but **the individual mistakes are more important than the total.**

Number & Place Value

Look for weaknesses in:

- Place value
- Ordering numbers
- Rounding
- Number sequences
- Multiplication/division facts
- Divisibility

Calculation & Fractions

Look for weaknesses in:

- Written calculation



- Mental arithmetic
- Fractions
- Fraction comparison
- Decimal notation
- Percentages
- Money

Measure & Geometry

Look for weaknesses in:

- Unit conversion
- Time
- Perimeter
- Area
- Angles
- Properties of shapes
- Square numbers
- Metric measures

Problem Solving & Reasoning

This is particularly important for 11+ preparation.

Look for:

- Reading accuracy
- Identifying the correct operation
- Multi-step calculations
- Logical reasoning
- Number patterns
- Ratio/proportion
- Applying familiar maths in unfamiliar situations
- Ability to explain reasoning

