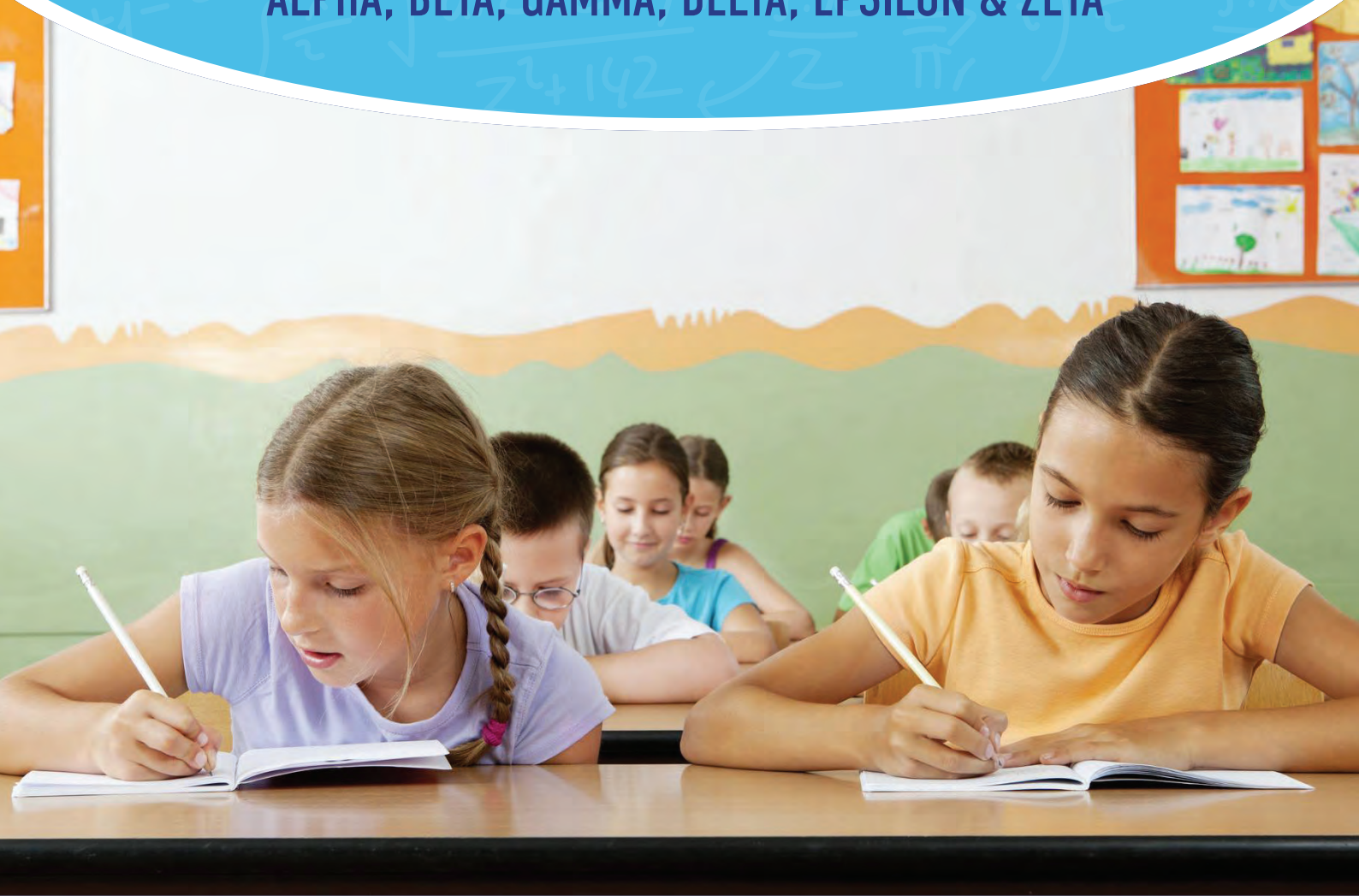


Maths Australia

PLACEMENT TEST

FOR MATH-U-SEE FOUNDATION LEVELS
ALPHA, BETA, GAMMA, DELTA, EPSILON & ZETA



MATHS
AUSTRALIA

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PLACEMENT TEST INSTRUCTIONS

Use these placement tests to determine

- a) **current level of maths mastery and**
- b) **where there are any gaps in their learning**

Every student is unique. The placement tests are understanding based tests, which means they will determine the student's understanding, irrespective of their age, or current grade level.

1. If your student is using fingers or units to count, begin at Alpha Level. If they can recognise, read, and write the numbers 0-10, begin with the Alpha Placement Test.
2. Progress through each Placement Test until the student begins to struggle or shows signs of not understanding the questions.
3. When the student scores less than 90% on a test and is no longer fluent with their answers, stop right there. This marks their current level of maths mastery.
4. Once you have finished the placement tests you can feel confident you have identified your students unique level of maths mastery.



STUDENT NAME:

Date:

Year:

Alpha Placement Test Result: _____

Beta Placement Test Result: _____

Gamma Placement Test Result: _____

Delta Placement Test Result: _____

Epsilon Placement Test Result: _____

Zeta Placement Test Result: _____

Student Name:

Year:

Alpha Placement Test

1 $8 + 5 =$

2
$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

3 $4 + 9 =$

4
$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

5 $9 + 3 =$

6 $9 + 9 =$

7
$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

8 $8 + 7 =$

9
$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

10 $8 + 7 =$

11 $5 + 3 =$

12
$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

13 $5 + 7 =$

14
$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

15 $3 + 6 =$

16
$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

17 $10 - 3 =$

18
$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

19 $17 - 9 =$

20
$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

21
$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$

22 $13 - 9 =$

23
$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

24 $16 - 7 =$

25
$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

26
$$\begin{array}{r} 11 \\ - 6 \\ \hline \end{array}$$

27 $15 - 8 =$

28
$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$

29 $15 - 9 =$

30
$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

- 31 The guests brought 6 red balloons and 5 yellow balloons to Meredith's party. How many balloons were brought to the party?
- 32 Kayla rode her bike 7 blocks and walked 3 blocks. How far did she travel?
- 33 Laura and her friend played a game. Laura scored 9 points and her friend scored 5 points. What was the difference between their scores?
- 34 Elizabeth did 13 math problems. She got 5 answers wrong. How many answers were right?
- 35 Eight children came to the picnic. Only two of them brought their baseball gloves. How many did not bring baseball gloves?

Student Name:

Year:

Beta Placement Test

Add.

① $24 + 46 =$

② $192 + 359 =$

③
$$\begin{array}{r} 907 \\ + 168 \\ \hline \end{array}$$

④
$$\begin{array}{r} \$8.92 \\ = \$2.49 \\ \hline \end{array}$$

⑤
$$\begin{array}{r} 6,474 \\ 7,610 \\ + 3,685 \\ \hline \end{array}$$

⑥
$$\begin{array}{r} 968 \\ 145 \\ 203 \\ + 75 \\ \hline \end{array}$$

Subtract.

⑦ $23 - 17 =$

⑧
$$\begin{array}{r} 115 \\ - 98 \\ \hline \end{array}$$

⑨
$$\begin{array}{r} 403 \\ - 215 \\ \hline \end{array}$$

⑩
$$\begin{array}{r} 710 \\ - 346 \\ \hline \end{array}$$

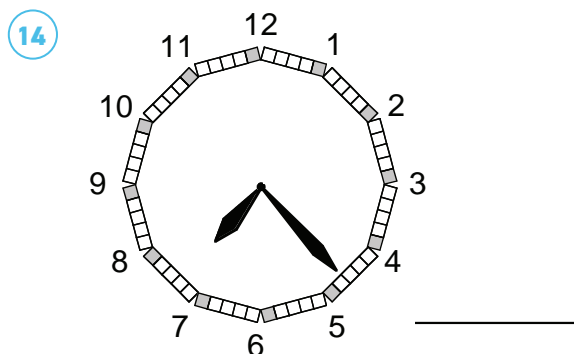
⑪
$$\begin{array}{r} 5,834 \\ - 1,057 \\ \hline \end{array}$$

⑫
$$\begin{array}{r} 81,327 \\ - 45,189 \\ \hline \end{array}$$

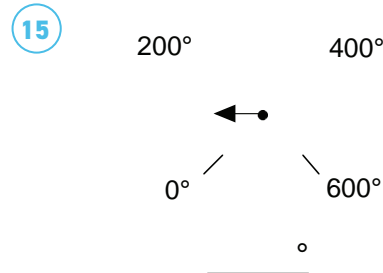
Write the number and say it.

⑬ two hundred seventy-six thousand, five hundred ninety-one = _____

Give the time with hours and minutes.



Read the gauge.



- 16 Penny counted 28 green cars and 43 red cars on the trip to Grandmother's house. Estimate how many cars she counted in all, then find the exact answer.
- 17 A fisherman caught 415 big fish and 221 little fish. How many fish did he catch altogether?
- 18 Brooke rode her bike for 3 hours on Monday, 4 hours on Tuesday, and 6 hours on Wednesday. On Thursday she was tired and only rode 1 hour. How many hours has Brooke ridden in all?
- 19 Jill had 11 chores to do. She already did 4 of them, and her sister helped by doing 2 more. How many chores does Jill still have left to do?
- 20 Richard is 29 years old and Joanne is 26 years old. How many years older is Richard?
- 21 Alan went to the store with \$55.00 and came out with \$21.15. How much money had he spent in the store?
- 22 Earl earned 255 dollars last winter doing chores. His grandmother gave him 125 dollars for his birthday. Earl spent 140 dollars on Christmas gifts. How much money does he have left?

Student Name:

Year:

Gamma Placement Test

If he struggles with multiplication, he should begin working in Gamma.

1 $4 \times 7 =$ 2 $5 \times 5 =$ 3 $0 \times 1 =$ 4 $8 \times 9 =$

5 $(3)(3) =$ 6 $(6)(6) =$ 7 $8 \times 5 =$ 8 $6 \times 4 =$

9 $(8)(2) =$ 10 $(4)(9) =$ 11 $7 \times 7 =$ 12 $4 \times 5 =$

13
$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

14
$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

15
$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

16
$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

17
$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

18
$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

19
$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

20
$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

21
$$\begin{array}{r} 85 \\ \times 26 \\ \hline \end{array}$$

22
$$\begin{array}{r} 421 \\ \times 73 \\ \hline \end{array}$$

23
$$\begin{array}{r} 7,546 \\ \times 8 \\ \hline \end{array}$$

24
$$\begin{array}{r} 509 \\ \times 636 \\ \hline \end{array}$$

25
$$\begin{array}{r} 3,482 \\ \times 59 \\ \hline \end{array}$$

26
$$\begin{array}{r} 6,187 \\ \times 467 \\ \hline \end{array}$$

Write $<$, $>$ or $=$ in the oval.

27 6×2 ○ 3×4

28 8×8 ○ 5×12

29 7×6 ○ 9×5

- 30 Mrs. Miller made 3 sandwiches for each of her 4 children. How many sandwiches did Mrs. Miller make in all?
- 31 Caitlyn did 2 chores a day for 4 days. Later she did 5 chores a day for 3 days. How many chores did she do in all?
- 32 A carton of eggs holds 12 eggs. How many eggs are there in 4 cartons?
- 33 Chuck drove 213 kilometres a week on his way to and from work. Round this distance to the nearest hundred, and estimate the total distance that he drove in 4 weeks.
- 34 Terri's garden measures 24 metres by 36 metres. What is the area of her garden?
- 35 Kent delivered 137 newspapers every day for 31 days. How many newspapers did Kent deliver altogether?

Student Name:

Year:

Delta Placement Test

1 $4 \overline{) 36}$

2 $6 \overline{) 24}$

3 $8 \overline{) 32}$

4 $7 \overline{) 49}$

5 $8 \overline{) 56}$

6 $4 \overline{) 20}$

7 $6 \overline{) 42}$

8 $6 \overline{) 60}$

9 $16 \div 8 = \underline{\hspace{2cm}}$

10 $35 \div 7 = \underline{\hspace{2cm}}$

11 $\frac{48}{8} = \underline{\hspace{2cm}}$

12 $\frac{7}{7} = \underline{\hspace{2cm}}$

13 $12 \div 4 = \underline{\hspace{2cm}}$

14 $36 \div 6 = \underline{\hspace{2cm}}$

15 $\frac{70}{7} = \underline{\hspace{2cm}}$

16 $\frac{12}{6} = \underline{\hspace{2cm}}$

Divide. Write your remainders without using fractions.

17 $4 \overline{) 80}$

18 $7 \overline{) 53}$

19 $8 \overline{) 648}$

20 $5 \overline{) 396}$

Divide. Write your remainders with fractions. Check your answers by multiplying.

21 $25 \overline{) 631}$

22 check #21 with multiplication.

23 $16 \overline{) 349}$

24 check #23 with multiplication.

25 $6 \overline{) 30458}$

26 check #25 with multiplication.

27 $84 \overline{) 57647}$

28 check #27 with multiplication.

- 29 Madison divided 12 apples equally between herself and a friend. How many apples did her friend receive?
- 30 Hannah made 18 muffins yesterday and 17 more today. She plans to divide the muffins among her five friends as gifts. How many muffins will each friend receive?
- 31 Jacob wants to divide 31 dollar coins among his four children. How many coins will each child receive? How many dollar coins will Jacob have left over?
- 32 Logan drove at 55 km an hour for 330 km. How many hours did the trip take?
- 33 Thirty-four people want to go the picnic. If all the available cars hold 5 people each, how many cars are needed to take everyone who wants to go?
- 34 A biologist placed 24,325 fish eggs in total in tanks to hatch. If he has 5 tanks and put the same number of eggs in each, how many eggs are in

Student Name: _____

Year: _____

Epsilon Placement Test

1 $\frac{1}{2}$ of 24 = _____

2 $\frac{2}{3}$ of 18 = _____

3 $\frac{7}{8}$ of 64 = _____

Fill in the missing numbers in the numerators or denominators to make equivalent fractions.

4 $\frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{16}$

5 $\frac{9}{10} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{36}{\quad}$

Compare the fractions and write the correct symbol in the oval.

6 $\frac{5}{7}$ ○ $\frac{3}{5}$

7 $\frac{4}{8}$ ○ $\frac{3}{6}$

8 $\frac{5}{8} \times \frac{1}{3} =$

9 $\frac{3}{9} + \frac{5}{9} =$

10 $\frac{1}{2} + \frac{1}{4} + \frac{7}{8} =$

11 $\frac{4}{5} - \frac{1}{3} =$

12 $\frac{1}{3} \div \frac{1}{5} =$

13 $\frac{4}{5} \times 2 \frac{3}{4} \times 3 \frac{1}{3} =$

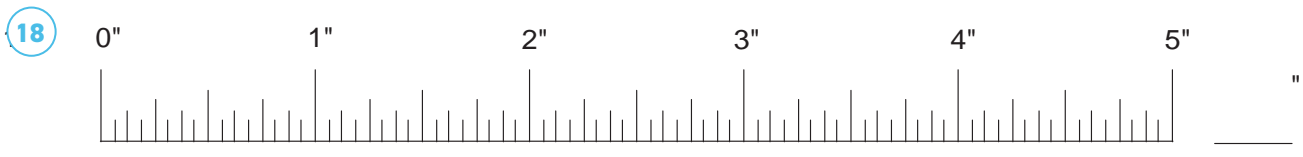
14 $3 \frac{4}{5} \div 2 \frac{7}{25} =$

15
$$\begin{array}{r} 7 \frac{1}{4} \\ - 5 \frac{3}{4} \\ \hline \end{array}$$

16
$$\begin{array}{r} 9 \frac{2}{3} \\ + 6 \frac{5}{9} \\ \hline \end{array}$$

17
$$\begin{array}{r} 5 \frac{1}{5} \\ - 2 \frac{5}{6} \\ \hline \end{array}$$

How long is the line?



- 19 Five eighths of the trees in my yard are eucalypts. If there are 16 trees in my yard, how many are eucalypts?
- 20 Sophia used $\frac{2}{5}$ of her birthday money for school supplies and $\frac{1}{3}$ of it for gifts. What part of her birthday money has she spent so far?
- 21 Gavin saw $\frac{3}{4}$ of a pizza on the kitchen bench. By the time he was finished eating, there was only $\frac{1}{8}$ of a pizza left. What part of a pizza did Gavin eat?
- 22 Three eighths of the guests at the picnic ate hamburgers. One half of the people who ate hamburgers had tomato sauce on them. What part of the people at the picnic had hamburgers with tomato sauce?
- 23 Marcy had $\frac{3}{4}$ of her birthday cake left over. She wants to give each of her guests $\frac{1}{16}$ of a whole cake. How many people can she serve?
- 24 Bria has $3\frac{1}{8}$ kg of chocolates. If she divides them into portions that each weigh $\frac{5}{8}$ kg, how many people can she treat?
- 25 $\frac{5}{8}$ of the money was for food. $\frac{1}{10}$ of that was used for eating out, and Rose got $\frac{4}{5}$ of that amount for herself because she travelled a lot. What part of the total money did Rose get for eating out?

Student Name:

Year:

Zeta Placement Test

Add or subtract the decimal numbers.

①
$$\begin{array}{r} 7.52 \\ - 1.85 \\ \hline \end{array}$$

② $6.0 + 5.28 =$

③ $32.041 - 0.596 =$

Multiply the decimal numbers.

④
$$\begin{array}{r} 2.49 \\ \times 0.60 \\ \hline \end{array}$$

⑤ $1.7 \times 3 =$

⑥
$$\begin{array}{r} 0.004 \\ \times 0.05 \\ \hline \end{array}$$

Change each fraction to a decimal and then to a percent.

⑦ $\frac{8}{10} = \underline{\quad} = \underline{\quad}\%$

⑧ $\frac{5}{6} = \underline{\quad} = \underline{\quad}\%$

Divide to the thousandths place, then round to the nearest hundredth.

⑨ $4 \overline{) 13.3}$

⑩ $7 \overline{) 4.58}$

Divide until you see a pattern, and write the answer with a line over the repeating portion.

⑪ $.6 \overline{) 39.4}$

⑫ $.03 \overline{) .022}$

Divide to the hundredths place, then write the remainder as a fraction.

⑬ $11 \overline{) 9}$

⑭ $9 \overline{) 5}$

- 15) Fritha has \$4.75 and Rachel has \$6.30. Do they have enough money to buy a new game that costs \$11.00?
- 16) Joel drove 642 kilometres yesterday. A kilometre is about .6 of a mile. How many miles did Joel drive yesterday?
- 17) Kyle bought a meal that cost \$15.96 and left a 15% tip. What was the total cost of the meal with the tip. (Round your answer to the nearest cent.)
- 18) Ken has collected 25 football cards. His goal is to have 400% of that number. How many cards does he hope to collect in all?
- 19) Julianne ordered items from a catalogue. They cost \$25.60, \$11.20 and \$45.20. Shipping is 8% of the cost of the goods. GST is 10% of the order including the shipping component. What is the total amount Julianne has to pay for her order?
- 20) Paul walked 27.3 kilometres. He stopped to rest every 9.1 kilometres. How many times did he stop? (Your answer will include his last stop at the end of the walk.)
- 21) Debra has \$66.35. How many items can she buy that cost \$3.15 each piece?



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