



*Creating a whole generation of
kids that are confident in maths*

PLACEMENT TESTS

FOR

ASSESSMENT OF STUDENT
UNDERSTANDING



.....
Student Name
.....

Date

Year

Green Placement Test

Result: _____ Time Taken: _____

Orange Placement Test

Result: _____ Time Taken: _____

Pink Placement Test

Result: _____ Time Taken: _____

Yellow Placement Test

Result: _____ Time Taken: _____

Blue Placement Test

Result: _____ Time Taken: _____

Purple Placement Test

Result: _____ Time Taken: _____

GREEN PLACEMENT TEST

.....

Student's Name

.....

Year

Before you begin:

Do you like maths? _____

Do you think you are good at maths? _____

Why do you think that is? _____

Write two numbers that add together to make ten.

$$9 + 3 =$$

$$8 + 5 =$$

$$4 + 9 =$$

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

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

Complete the following sequences.

4 , 5 , 6 , 7 , _____ , _____ , _____ , _____

62 , _____ , 66 , _____ , _____ , 72

70 , 80 , _____ , 100 , _____ , _____

10 , 9 , 8 , 7 , _____ , _____ , _____ , _____

What number is one before six?

Write the following numbers in order, from smallest to largest.

3 , 7 , 10 , 2 _____ , _____ , _____ , _____

Now write the same numbers in order, from largest to smallest.

_____ , _____ , _____ , _____

Identify the number of hundreds, tens and units you have in each place.

96 H ____ T ____ U ____

413 H ____ T ____ U ____

In the number 362;

In which place is the numeral '3' _____

How many units is this? _____

How many tens is this? _____

How many hundreds is this? _____

In which place is the numeral '6'? _____

How many units is this? _____

How many hundreds is this? _____

In which place is the numeral '2'? _____

How many units is this? _____

How many tens is this? _____

How many hundreds? _____

How many units (ones) are there in one ten? _____

How many tens are there in one hundred? _____

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

$$8 - 4 =$$

$12 - 7 =$

$15 - 9 =$

The guests brought six red balloons and five yellow balloons to Meredith's party. How many balloons were brought to the party?

Kayla rode her bike seven blocks and walked three blocks. How far did she travel?

Laura and her friend played a game. Laura scored nine points and her friend scored five points. What was the difference between their scores?

Elizabeth did thirteen maths problems. She got five answers wrong. How many answers were right?

Eight children came to the picnic. Only two of them brought their baseball gloves. How many did not bring baseball gloves?

ORANGE PLACEMENT TEST

.....

Student's Name

.....

Year

Calculate the following, showing each step:

$$22 + 48 =$$

$$183 + 368 =$$

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

$$\begin{array}{r} \$8.92 \\ + \$2.49 \\ \hline \\ \hline \end{array}$$

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

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

Calculate the following, showing each step:

$$23 - 17 =$$

$$115 - 98 =$$

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

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

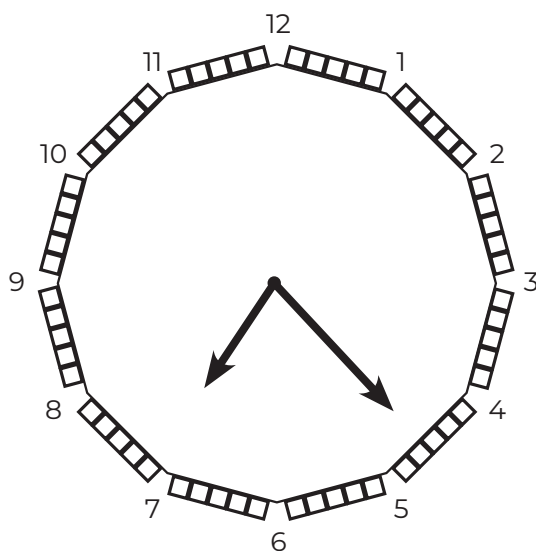
$$\begin{array}{r} 5,834 \\ - 1,057 \\ \hline \\ \hline \end{array}$$

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

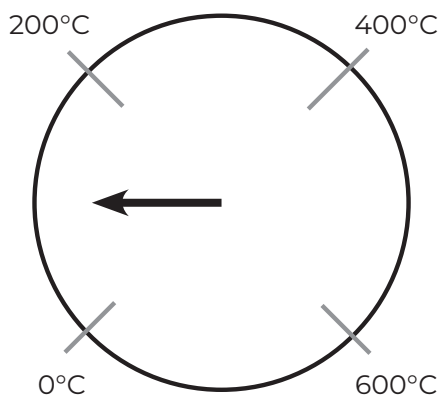
Write the number and say it.

Two hundred seventy-six thousand , five hundred ninety-one = _____

Write the time with hours and minutes in digital clock form.



Read the gauge to show the temperature.



Round 15 to the nearest ten _____

Round 152 to the nearest hundred _____

Round 76 to the nearest ten _____

Penny counted twenty-eight green cars and forty-three red cars on the trip to Grandmother's house. Estimate how many cars she counted in all, then find the exact answer.

A fisherman caught four hundred and fifteen big fish and two hundred and twenty-one little fish. How many fish did he catch altogether?

Brooke rode her bike for three hours on Monday, four hours on Tuesday, and six hours on Wednesday. On Thursday she was tired and only rode one hour. How many hours has Brooke ridden in all?

Cameron earned two hundred and fifty-five dollars last winter doing chores. His grandmother gave him one hundred and twenty-five dollars for his birthday. Cameron then spent one hundred and forty dollars on Christmas gifts. How much money does Cameron have left now?

Jill had eleven chores to do. She already did four of them, and her sister helped by doing two more. How many chores does Jill still have left to do?

Richard is twenty-nine years old and Joanne is twenty-six years old. How many years older is Richard than Joanne?

Alan went to the store with fifty-five dollars and came out with twenty-one dollars and fifteen cents. How much money had he spent in the store?

PINK PLACEMENT TEST

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Student's Name

.....

Year

Calculate the following;

$$4 \times 7 =$$

$$0 \times 1 =$$

$$(6) (6) =$$

$$(4) (9) =$$

$$8 \times 5 =$$

$$7 \times 7 =$$

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

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

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

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

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

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

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

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

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

Write all of the factors of forty eight.

Write all of the factors of fifty six.

Write $<$, $>$ or $=$ in the oval to show the inequalities below.

$$6 \times 2 \text{ } \bigcirc \text{ } 3 \times 4$$

$$8 \times 8 \text{ } \bigcirc \text{ } 5 \times 12$$

$$7 \times 6 \text{ } \bigcirc \text{ } 9 \times 5$$

Mrs. Miller made three sandwiches for each of her four children. How many sandwiches did Mrs. Miller make in all?

Caitlyn ran two kilometres a day for two days. Then she ran five kilometres a day the remaining three days of the weeks. How many kilometres did she ran altogether this last week?

A carton of eggs hold twelve eggs. How many eggs are in four cartons?

Chuck caught two hundred and thirteen fish each week. Estimate the number of fish that he caught in the last four weeks.

Terri's backyard measures twenty-four metres by thirty-six metres. What is the area of her backyard?

YELLOW PLACEMENT TEST

.....

Student's Name

.....

Year

$$4 \overline{) 36}$$

$$8 \overline{) 32}$$

$$7 \overline{) 49}$$

$$16 \div 8 =$$

$$35 \div 7 =$$

$$\frac{48}{8}$$

$$12 \div 4 =$$

$$36 \div 6 =$$

$$\frac{70}{7} =$$

$$56 \div 7 =$$

$$\frac{12}{6} =$$

Divide. Write your remainders without using fractions.

$$4 \overline{)82}$$

$$7 \overline{)53}$$

$$648 \div 8 =$$

$$5 \overline{)396}$$

Divide. Write your remainders with fractions.

$$25 \overline{)631}$$

$$349 \div 16 =$$

$$\frac{30458}{6} =$$

$$84 \overline{)57647}$$

Madison divided twelve apples equally between herself and a friend. How many apples did her friend receive?

Hannah made eighteen muffins yesterday and eleven more today. She plans to divide the muffins among her five friends as gifts. How many muffins will each friend receive?

Jacob wants to divide thirty-one dollar coins among his four children. How many coins will each child receive? How many dollar coins will Jacob have left over?

Logan drove at fifty-five km every hour for three hundred and thirty km. How many hours did the trip take?

Thirty-four people want to go picnic. If all the available cars hold five people each, how many cars are needed to take everyone who wants to go?

A biologist placed twenty-four thousand three hundred and twenty-five fish eggs in total in tanks to hatch. If he has five tanks and put the same number of eggs in each, how many eggs are in each tank?

BLUE PLACEMENT TEST

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Student's Name

.....

Year

$$\frac{1}{2} \text{ of } 24 = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \text{ of } 18 = \underline{\hspace{2cm}}$$

$$\frac{7}{8} \text{ of } 64 = \underline{\hspace{2cm}}$$

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

$$\frac{3}{4} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \frac{\hspace{1cm}}{16}$$

$$\frac{9}{10} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \frac{36}{\hspace{1cm}}$$

Show inequalities.

$$\frac{5}{7} \bigcirc \frac{3}{5}$$

$$\frac{4}{8} \bigcirc \frac{3}{6}$$

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

$$\frac{8}{9} - \frac{5}{9} =$$

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

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

$$4\frac{1}{3} + \frac{1}{5} =$$

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

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

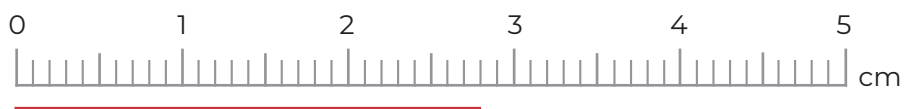
$$12\frac{5}{6} - 1\frac{1}{6} =$$

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

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

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

How long is the line?



Write this as a decimal. _____

Five eighths of the trees in my yard are eucalyptus. If there are sixteen trees in my yard, how many are eucalyptus?

Sophia used two fifths of her birthday money for school supplies and one third of it for gifts. With maths symbols, show what part of her birthday money she has spent so far.

Gavin saw three quarters of a pizza on the kitchen bench. By the time he was finished eating, there was only one eighth of a pizza left. What part of a pizza did Gavin eat?

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?

Marcy had three fourths of her birthday cake left over. She wants to give each of her guests one sixteenth of a whole cake. How many people can she serve?

Bria has three and one eighth kilograms of almonds. If she divides them into portions that each weigh five eighths **kilogram**, how many people can she treat? (Write these as fractions, show your workings).

PURPLE PLACEMENT TEST

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Student's Name

.....

Year

Add or subtract the decimal numbers.

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

$$6.0 + 5.28 =$$

$$32.041 - 0.596 =$$

Multiply the decimal numbers.

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

$$1.7 \times 3 =$$

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

$$\begin{array}{r} 3.75 \\ \times 5.00 \\ \hline \\ \hline \end{array}$$

The circular sports field has a radius of fifty two metres. Draw it here and label the sports field.

Write the formula and calculate the circumference of the sports field.

Write the formula and calculate the area of the sports field.

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

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

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

Answer the following.

$$4 \overline{) 13.3}$$

$$7 \overline{) 4.58}$$

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

$$6 \overline{) 39.4}$$

$$.03 \overline{) .022}$$

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

$$11 \overline{) 9}$$

$$9 \overline{) 5}$$

Fritha has four dollars and seventy-five cents and Rachel has six dollars and thirty cents. Do they have enough money to buy a new game that costs eleven dollars?

Joel drove six hundred and forty-two kilometres yesterday. A kilometre is about zero point six of a mile. How many miles did Joel drive yesterday?

Kyle bought a meal that cost fifteen dollars and ninety-six cents and left a fifteen percent tip. What was the total cost of the meal with the tip? (Round your answer to the nearest cent.)

Ken has collected twenty-five football cards. His goal is to have four hundred percent of that number. How many cards does he hope to collect in all?

Julianne ordered items from a catalogue. They cost twenty-five dollars and sixty cents, eleven dollars and twenty cents, and forty-five dollars and twenty cents. Shipping is eight percent of the cost of the goods. GST is ten percent of the order including the shipping component. What is the total amount Julianne has to pay for her order?

Paul walked twenty-seven point three kilometres. He stopped to rest every nine point one kilometres. How many times did he stop? (Your answer will include his last stop at the end of the walk.)

Debra has sixty-six dollars and thirty-five cents. How many items can she buy that cost three dollars and fifteen cents each?

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