

Name:	School:	Target Grade:
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**HEADSTART QUIZ TO
SECONDARY 1 MATH****READ THESE INSTRUCTIONS FIRST****INSTRUCTIONS TO CANDIDATES**

1. This is a 30 marks quiz.
2. The questions tested here come from topics which you have learnt in Primary School.
3. You can use your Calculate while attempting the questions.

Word of Encouragement:

No matter your PSLE grades, let Secondary School be a fresh new chapter!

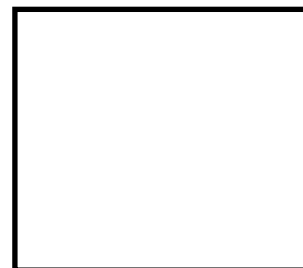
Math will feel quite different now without models, and Algebra will be an exciting new journey.

Start early, and you'll find Secondary 1 Math much easier to tackle.

You've got this—believe in yourself!

I believe in you.

Team Paradigm

**PARADIGM**

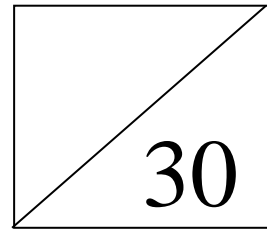
[Turn Over]

Name: _____

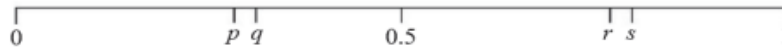
Class: _____

Date: _____

Secondary 1 Mathematics
HEADSTART



- 1 The numbers p , q , r , and s are represented on the number line.



The values of p , q , r , and s are listed below.

$$\frac{1}{3}$$

$$33.3\%$$

$$\frac{\sqrt{2}}{2}$$

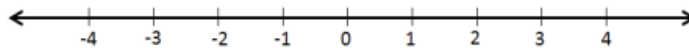
$$\frac{\pi}{4}$$

Find p , q , r , and s .

[2]

- 2 Represent the number $\frac{5}{6}$, $\sqrt[3]{-27}$, 3.5 and $-\frac{7}{5}$ on a number line.

[1]



- 3 Evaluate, without the use of a calculator, $[8 + (-4)^3] - [-2(12 + 3) \div 3]$, showing all your working clearly.

[2]

- 4** Evaluate the following, and show your working clearly.
- (a) $3 + 4^2 \div 2 + \sqrt[3]{8} \times (2 - 8)$ [2]
- (b) $\left[1\frac{2}{3} + \left(-\frac{1}{6}\right)\right] \div \frac{6}{7} \times \left(1\frac{4}{5} - 2\frac{3}{10}\right)$ [2]
- 5** The local time of Rio de Janeiro in Brazil and that of Singapore is $GMT - 3$ and $GMT + 8$ respectively. The World Cup soccer final game is played at 16 00 on 13 July in Rio de Janeiro.
- (a) Find the local time and date in Singapore when the soccer game is played. [1]
- (b) It takes 30 hours to travel from Singapore to Rio de Janeiro. Mr Beatty departs from Singapore on 12 July at 17 00 to Rio de Janeiro. Find out if he is in time to watch the soccer game. [1]
- 6** At the school Sports Day, $\frac{11}{15}$ of the audience were students, $\frac{1}{4}$ of the remainder were parents and the rest were teachers. What fraction were teachers? [2]

- 7 The population of Brunei was 422 000 in 2016. This value has been rounded off to the nearest 1000.
- (a) What is the largest possible value of the population of Brunei in 2016? [1]
- (b) What is the smallest possible value of the population of Brunei in 2016? [1]
- 8 (a) Express 125 g as a percentage of 5 kg. [1]
- (b) Find the value of 4.5% of \$8. [1]
- 9 Zilong suffered a loss of 20% when his watch was sold at \$80. How much should he have sold his watch if he wanted to make a gain of 20%? [1]



- 10 The marked price, inclusive of 7% GST, of a LCD television was \$2675. Harley bought the television during the recent COMEX exhibition and received a 5% discount.
- (a) Calculate the marked price before GST. [1]
- (b) Find the original GST amount. [1]
- (c) Find the selling price, before GST, of the LCD television. [1]
- (d) Find the GST amount after the discount. [1]

