



Al Sharq Bright International School

Model Paper for Mid Term Exam 2017-2018

Name: _____ Subject: Mathematics Class: 7 ___ Date: _____

Part – 1

A. Fill in the blanks:

1) $\frac{2}{3}$ of 30 = _____

2) $12.5 \times 10 =$ _____

3) 135 mm = _____ cm

4) $5 \div \frac{3}{4} =$ _____

5) $2^4 \times 2^3 =$ _____

6) The exponential form of 13 to the power of 9 = _____

B. Write whether true or false:

1) $a^{16} \div a^8 = a^8$ _____

2) $\frac{1}{4} = 0.25$ _____

3) $3 \div \frac{1}{3} = 19$ _____

4) $(-2)^3 = 6$ _____

5) 0.2222.... is a rational number. _____

6) $\frac{1}{3} \times \frac{2}{3} = \frac{2}{3}$ _____

C. Choose the correct answer:

1) The reciprocal of $1\frac{7}{8}$ is _____

a) $\frac{1}{3}$

b) $\frac{8}{15}$

c) $\frac{15}{8}$

2) $0.007 \text{ km} = \underline{\hspace{2cm}}$
a) 7m b) 70m c) 700m

3) $6.345 \times 100 = \underline{\hspace{2cm}}$
a) 634.5 b) 0.06345 c) 63.45

4) $\left(-\frac{7}{10}\right)^2$
a) $\frac{49}{100}$ b) $\frac{7}{10}$ c) $\frac{343}{1000}$

5) $4 \times 3\frac{1}{4} = \underline{\hspace{2cm}}$
a) 3 b) 4 c) 13

Part – 2

D. Multiply the following:

1) $\frac{81}{100} \times \frac{25}{36}$

2) 23.168×1.19

3) $\left(\frac{-4}{9}\right) \times \left(\frac{-7}{8}\right)$

4) $2^3 \times 2^5$

E. Divide the following:

1) $7 \div \frac{2}{5}$

2) $5.7 \div 1000$

3) $(\frac{-2}{9}) \div (\frac{4}{7})$

4) $x^3 \div x^7$

F. Convert the following:

1) 80 m to cm.

2) 0.031 cm to mm.

3) $\frac{13}{4}$ to decimal number.

4) $\frac{1}{1000}$ to power notation.

G. Which is greater than 1 or less than 1:

1) $\frac{5}{7} \times \frac{7}{9}$

2) $25 \div \frac{5}{2}$

Part – 3

H. Simplify:

$$1) \frac{(2^4)^2 \times 7^3}{8^2 \times 7}$$

$$2) 278.99 \times 1.05$$

$$3) 19.68 \div 6.15$$

$$4) [(5^2)^3 \times 5^4] \div 5^5]$$

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

I. Solve:

1) Find two rational numbers between $\frac{-1}{5}$ and $\frac{-4}{13}$

2) How many seconds are there in $\frac{2}{5}$ of 3 hours?

3) Sam is carrying a bag weighing 5.5 kg. How many grams is it?

4) Find the value of x in $(2^2)^x = 64$

J. Solve:

1) In a class of 48 students, $\frac{1}{4}$ of them regularly watch a particular TV program. How many students do not watch the same?

2) A biscuit making unit uses 4.55 kg of salt every week. How much salt is used by the biscuit making unit every day?

- 3) Three friends divided a box of apples weighing $15\frac{9}{10}$ kg equally between them.
How many kgs of apples did each get?

K. Subtract:

1) $\frac{5}{8}$ from $\frac{-9}{10}$

2) $\frac{-11}{20}$ from $\frac{13}{15}$

Part – 4

L. Mental Math:

- 1) The absolute value of $|-7| =$ _____
- 2) 62.975 m = _____ km
- 3) The reciprocal of 5 is _____
- 4) $(x^a)^b =$ _____

Note: This is just a model, not the exam paper.