

Jakarta International School 6th Grade

Name: Date:

Practice Test - Formative. **DECIMALS - Blue**

Score: $\frac{1}{35}$ points for Q marked 62 in total

1) **Unit Conversions** (1pt each)

a.
$$0.37 \text{ km} = \underline{\qquad} \text{m}$$
 $35 \text{ mg} = \underline{\qquad} \text{g}$

c.
$$25 g =$$
_____kg

c.
$$25 g =$$
 _____ kg **d.** $17.3 L =$ _____ mL

2) Select the most reasonable answers (1pt each)

Volume of a bathtub

a. 25L

b. 250 L **c.** 2,500 ml

Mass of a sixth grader **a.** 400 g

b. 40 q **c.** 40 kg

Hength of a basketball **a.** 270 cm court

b. 27 m **c.** 2.7 m

₩eight of a big dog a. 90 mm

b. 9 m **c.** 90 cm

3) Translating words to decimals (2pts each)

Write the Decimal using numbers and then solve. Then write the answer in words

 \mathfrak{B} . Divide 70 and 6 thousandth by four tenths.

b. Add 18 thousandth and four thousand, then square the result.

4) Distributive Property

a. Use the distributive property to rewrite the following expressions and then simplify them. (2pts each)

Expression	Rewrite	Simplify
*		
$3 \bullet 5 + 27 \bullet 5$		
407(99)		
米 8(98)		

b. Factor a 3 or 6 out of each numerical expression. (1pt each)

 $\Re i$) 84 + 96

ii) 126 + 378

5) Scientific Notation

a. Write these numbers in scientific notation: (1pt each)

Standard form	Scientific notation
₩ 1985	
₩ 47 000	
34.56	
82 300 000	

b. Write these numbers in standard form: (1pt each)

Scientific notation	Standard form
2.4×10^3	
6.2245×10^9	
₩3.28 x 10 ⁵	
$\Re 6 \times 10^6$	

c. Solve and express the result in scientific notation: (1pt each)

$$\underline{\Re}$$
 (3×10⁴) (3×10⁴)

$$\text{Hiii} \frac{(9 \times 10^7)}{(2 \times 10^3)}$$

ii)
$$(5 \times 10^6)$$
 (3×10^4)

iv)
$$\frac{(5.0 \times 10^{10})}{(2.0 \times 10^7)}$$

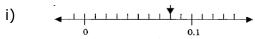
d. Rank the following three numbers written in scientific notation from smallest to largest. (1pt)

Smallest = 3

6.78 × 10-4	
9.3 × 10 ⁻⁵	
8.2 × 10-4	

Rank the following values in order from largest value to smallest value. (2pts)

Smallest = 5 Largest = 1



ii) 0.0085

Value	i)	ii)	iii)	iv)	v)
Rank					

- iii) 8.5×10^{-2}
- iv) eighty hundredths

 $v)\ 0.08 + 0.008 + 0.0005$

6) Estimate first and then solve. Show your work. (2pts each)

**) Use the information in the chart to answer the questions. (1pt) Show all your steps.

Lion and the Cage	Cage without the Lion	Tiger and the Cage	Cage without the Tiger
241.6 kg	67.48 kg	254.5 kg	63.2 kg

₩. Which weighs more, the lion or the tiger?

Mixed Word Problems with Decimals (3pts each)

8) The total cost of 5 notebooks, 2 calculators and 3 binders is \$78.45. If each notebook costs \$1.70 and each binder costs \$5.99, find the cost of each calculator.

3) Seven friends go to a restaurant for dinner. The bill comes to \$249.55. Two people have only 30 dollars each, so the rest of the group shares the remainder of the bill equally. How much do the five others pay? Round off the answer sensibly. Explain your answer.

