



CC3112

GRADES
6-8

Principles & Standards of Math Series

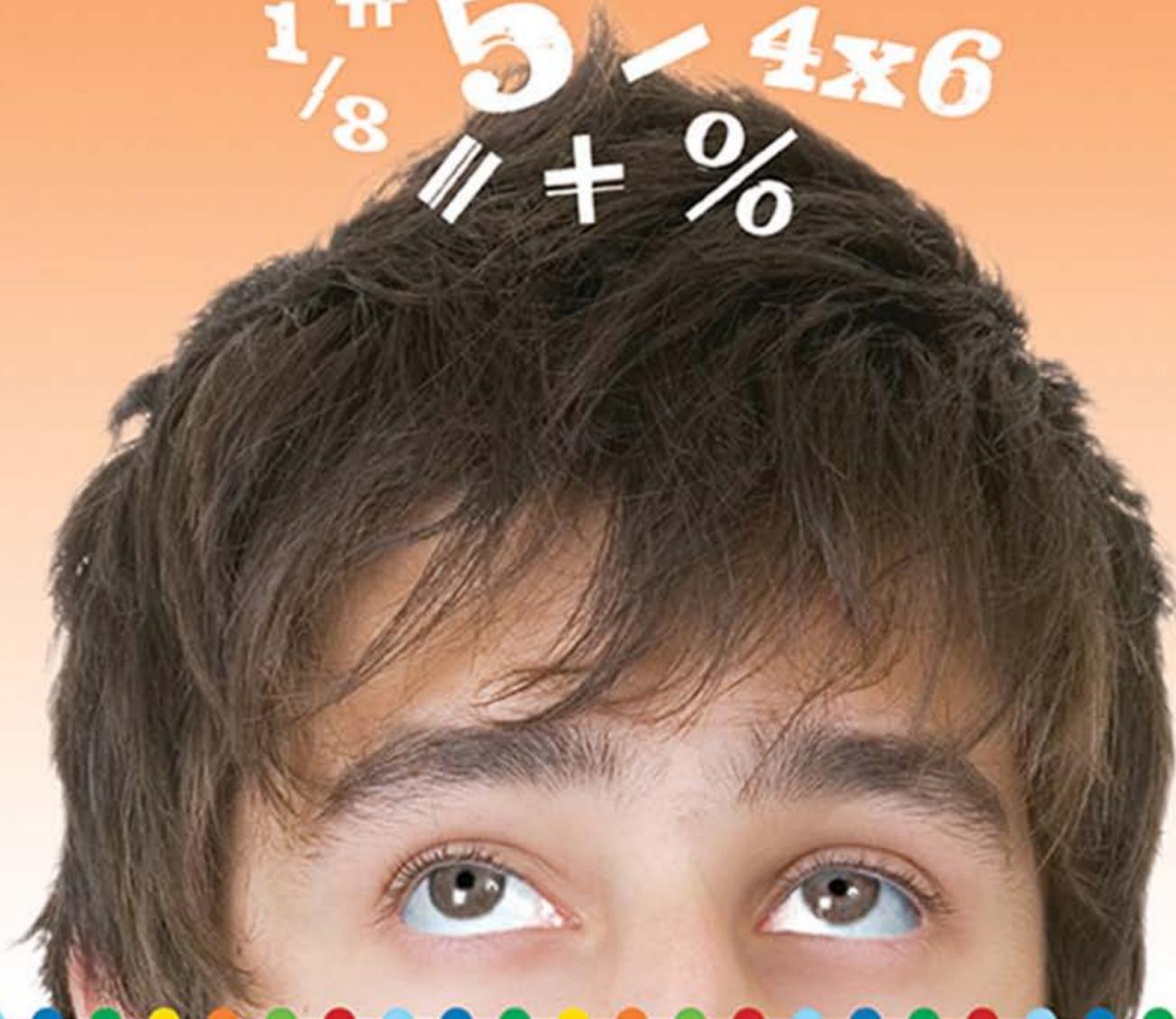
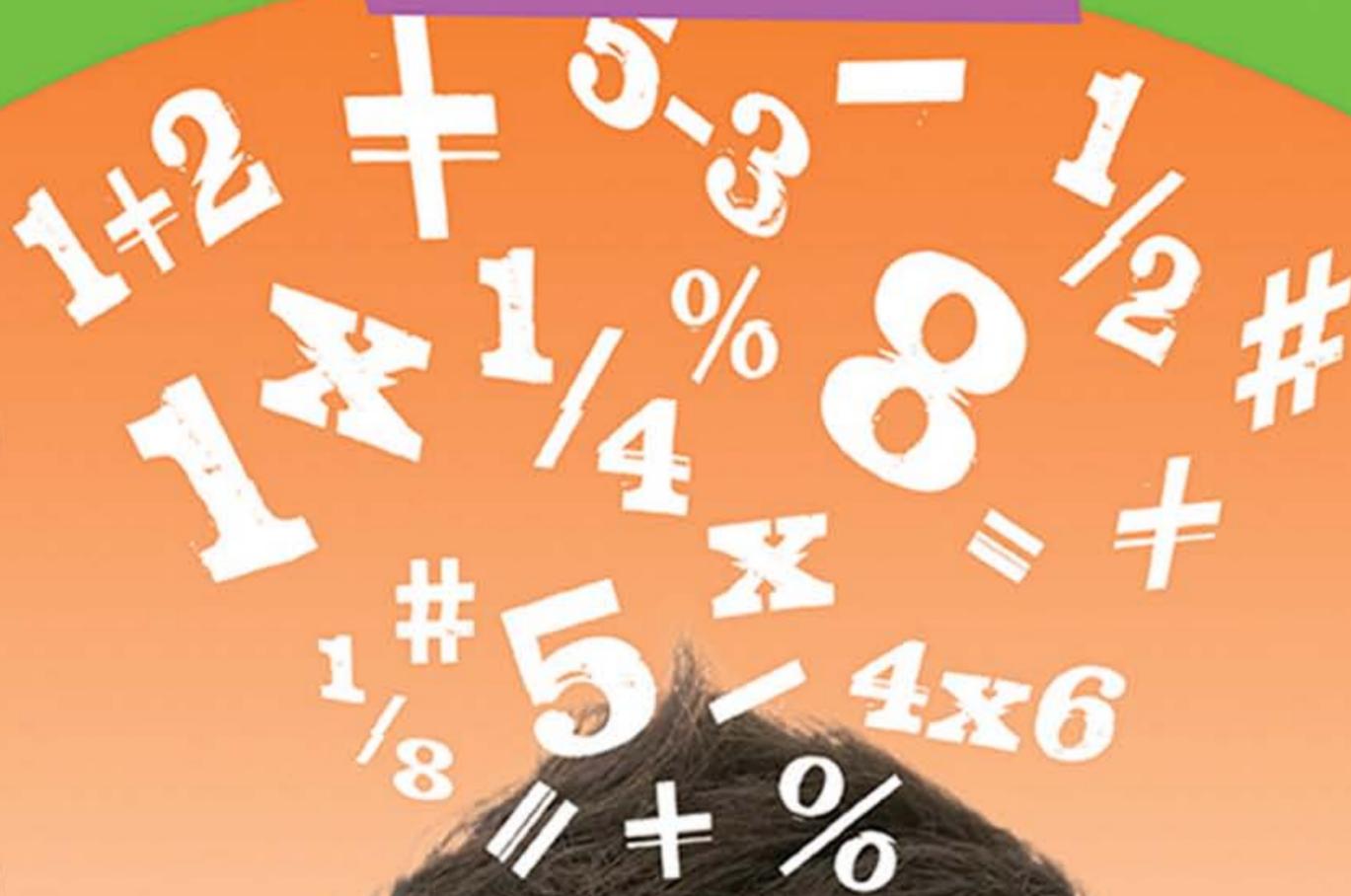
Number & OPERATIONS

Task Worksheets

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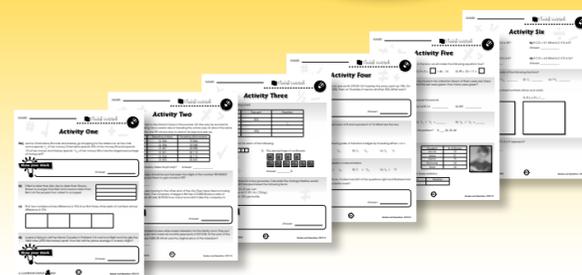
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Drill Sheet 2

2a) Which of the following is not a pattern in which a constant is added or subtracted?

- i) 50, 45, 40, 35, 30
- ii) 15, 17, 19, 21, 23
- iii) 6, 10, 14, 18, 22
- iv) 42, 40, 38, 26, 34

b) i) $989\ 099 + 1 =$ _____ ii) $23\ 456 + 100 =$ _____
 iii) $234.3 + 0.01 =$ _____

c) i) $5^2 =$ _____ ii) $12^2 =$ _____ iii) $3^3 =$ _____ iv) $15^3 =$ _____ v) $28^3 =$ _____

d) Divisor = 7, Quotient = 40, Remainder = 2. What is the dividend?

- i) 282
- ii) 287
- iii) 285
- iv) 28

e) What answer will have a remainder?

- i) $649 / 8$
- ii) $490 / 7$
- iii) $242 / 2$
- iv) $663 / 3$

f) The population of Mexico is closest to the following number:

- i) 11 000
- ii) 11 000 000
- iii) 110 000 000
- iv) 11 000 000 000

g) What is the value of this expression $-1 + 23/100$

- i) $-77/100$
- ii) $-23/100$
- iii) $-123/100$
- iv) $-23/10$

h) What is the missing number in the following pattern below?

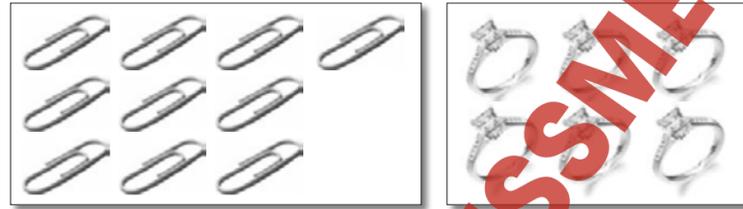
215, 208, 201, _____, 187

Answer = _____



Review A

a) For the following picture, write as many multiplication and division sentences that you can.



Answer = _____

b) For each sentence below, write 7 more related sentences (use the same numbers).

i) $4 \times 7 = 28$

ii) $45 = 9 \times 5$

Answer i) = _____

Answer ii) = _____

c) There are 15 people in a room. 6 people are wearing socks, 4 people are wearing shoes, and 3 people are wearing both. How many people are in bare feet?



Answer: _____

d) The Revolution Period around the Sun for Earth takes 365 days. If it takes Venus only 62 of this time, approximately how many days is the Revolution Period for the planet Venus?

- i) 226 days
- ii) 246 days
- iii) 198 days
- iv) 302 days



Review B

a) Calculate the mean, mode and median for the following list of numbers.

- 234, 298, 125, 345, 745, 125, 541

Mean	
Mode	
Median	

b) Place a < or > sign between each pair of fractions to indicate which is greater.

- i) $5/8$ _____ $7/8$
- ii) $2/3$ _____ $5/8$
- iii) $1/3$ _____ $3/8$
- iv) $1/2$ _____ $5/8$
- v) $3/6$ _____ $3/7$

c) Replace each blank with the correct digit.

- i) $21__341 + 8567 = 218908$
- ii) $23.074 - 12.7__1 = 10.353$
- iii) $9.2 \times 6.__ = 58.88$

d) Mrs. Wormstead baked a batch of chocolate chip cookies. Each batch has a total of 15 cookies. Mrs. Wormstead's son, Steadfast, came home and ate $1/3$ of this batch. If she then baked three more batches, what is the total number of cookies that Mrs. Wormstead has?

- i) 40
- ii) 55
- iii) 60
- iv) 45

e) Meredith finishes a race in 39.761 seconds. Her friend Amanda also ran in the same race. We know the following about Amanda's results:

- The number in the thousandths column is twice that of Meredith's
- The digit in the tens column was six more than Meredith's
- The number in the tenths column was five less than Meredith's

What is Amanda's time?

Answer = _____

f) The following numbers are written in expanded form. Rewrite them in standard form.

i) $4 \times 10^3 + 3 \times 10^2 + 5 \times 10 =$ _____

ii) $7 \times 10^3 + 8 \times 10^2 + 2 \times 10 =$ _____

Rounding, Ordering, Patterning, Fractions, Greater Than/Less Than

a) Round off the following numbers to the nearest hundredth.

i) ii) iii)

b) List the following integers in order from least to greatest.

c) What is the number 10 000 before:

d) By which number is the pattern decreasing?

e) Reduce the following fractions to their simplest forms.

i) ii) iii)

f) Circle either < or > to indicate which number is larger in each of the following pairs.

i) ii) iii)



Task Sheet 10

10a) Amanda's parents have given her the green light for getting a dog for her birthday. They have told her that she has to budget \$1000 for the dog and a doghouse. After doing quite a lot of research, she has narrowed her search to three breeds: Bichon Frise, French Bulldog, and an Irish Wolfhound. The following chart breaks down the cost for each dog plus the doghouse.



Dog	Cost of Dog	Cost of Doghouse	Tax (15%)	Total Cost
Bichon Frise	\$600	\$100		
French Bulldog	\$750	\$150		
Irish Wolfhound	\$800	\$175		

Complete the above chart by calculating the tax and totaling the cost for each dog. Which dog(s) come within Amanda's budget?



Show Your Work

EASY MARKING

b) Before making a final decision, Amanda's dad asks her to also calculate the cost of food for these three breeds. Amanda speaks to the people at the local Kennel Club and is given the following figures for the possible cost of dog food for a month. Calculate the possible cost to Amanda for one year.

Dog	Cost of Dog Food/Month	Cost/Year
Bichon Frise	\$20	
French Bulldog	\$35	
Irish Wolfhound	\$60	

10. a) \$105 \$805
\$135 \$1035
\$146.25 \$1121.25

The Bichon Frise come within her \$1000 budget

b) Bichon Frise - \$240.00
French Bulldog - \$420.00
Irish Wolfhound - \$720.00

16

11. a) $\$65 \times 1.07 = \69.55
 $\$70.00 - \$69.55 = .45\text{¢}$
b) i) E
ii) 10%
iii) 40%c) There are 36 flowers (3 dozen)
 $-.75\text{¢} \times 3 = \2.25

17

12. a) Caleb - 19.6
Stephen - 18.8

b) 5
c) 21
d) 18

18

13. a) 0.6, 67%, $\frac{3}{4}$, $2\frac{1}{2}$, 2.7 - convert to decimals ~ .6, .67, .75, 2.5, 2.7
b) -26, -14, -12, -4, 2, 17, 121
c) $\frac{4}{9}$ ~ halfway between $\frac{2}{9}$ and $\frac{6}{9}$

d) 40.0 is not equivalent -
 $\frac{2}{5} = .40$
 $40\% = .40$
 $\frac{8}{20} = .40$
 $40.0 = 40.00$

19

14. a) iii) 8 feet (2.4 meters) Reduce by 20% with each bounce. $20 - 16 - 12.8 - 10.24 - 8.192$
b) $\$20.00 - (\$2.50 \times 5 = \$12.50) - (.95\text{¢} \times 4 = \$3.80) = \$3.70$

c) No.
 $8^3 = 8 \times 8 \times 8 = 512$
while $8 \times 3 = 24$
d) $\$12.50 \times 7.5 \times 5.5 \times 8 = \4125.00

20



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