MATHEMATICAL APPROACH aT VISION ScHOOLS

BANK 3
Grade 6 – August 2014

Mental Math

VISION
ÉCOLE · ESCUELA · SCHOOL

BANK 3 – MENTAL MATH
GRADE 6

SET #1

1. 836 to the nearest ten?
2. What number is 3 tenths less than 1?
3. Nine less than what number is 6?
4. How much is 6 dimes, 3 nickels, and 1 quarter?
5. The product of 4 and 12 is divided by some number to get an answer of 3. What is the number?
6. If 2/5 of a pizza costs $4.00, how much will the whole pizza cost?
7. Eighteen is equal to twice what number?
8. The sum of what number and 14 is equal to 21?

SET #2

1. 11 x 700
2. 900 x 40
3. 4/5 + 3/10
4. If 5/10 of a number is 80, what is the number?
5. Estimate 56 x 3
6. Which fraction is smaller? 1/10, 1/5, 1/8
7. What is the product of the factors of 6?
8. 9/10 x 5

SET #3

1. 2 x 7 x 5
2. 15 x 2 x 5 x 2
3. Find the product of 3 and 840
4. 2400 ÷ 60
5. 90 – 40 + 80 – 40
6. Write 75% as a decimal.
7. 5/8 = ?/32
8. What is the least common multiple of 6 and 8?

SET #4

1. Which is greater: ½ or 0,55?
2. What is 2/5 when written as a decimal?
3. Give two other forms of the fraction 6/4
4. Write three fractions equivalent to the number 4.
5. What is ¼ of 500?
6. 40 – 29.99
7. 980 ÷ 20
8. If you toss a fair coin 80 times, about how many times should it land on tails?

SET #5

1. 640 + 280
2. 1000 – 390
3. 47,6 – 12,4
4. 14.0721 to the nearest hundredth
5. 57 412 to the nearest thousand
6. Find the area of a square where one side is 4 meters
7. Estimate: 295 ÷ 19
8. What is ½ of 5 written as a decimal?

SET #6

1. 22 x 1 000
2. 13 x 100
3. 720 ÷ 9
4. 6 500 ÷ 10
5. 3/7 x 14
6. 4 870 – 210
7. Centimeters in 3 meters
8. List the prime numbers from 2 to 20

SET #7

1. 820 + 900	2. 524 + 260
3. 3600 ÷ 9	4. 50 x 48
5. 8 x 6 x 500	6. What is the product of 8, 0, 5, and 6?
7. 4 – 1,58 =	8. How many centuries are in 475 years?

SET #8

1. 600 + 3 300	2. 900 – 100 – 20
3. 590 – 300	4. 30 + 25 + 20
5. 6 300 ÷ 7	6. Number of faces on 3 Kleenex boxes
7. Number of vertices on a cube	8. How many quarters are in $6.75?

SET #9

1. 200 + 80 + 8000	2. 124 + 8
3, 225 + 25 + 50	4. 490 ÷ 70
5. What are the first 4 square numbers?	6. Write 1/3 as a decimal
7. What is 2/5 of 40?	8. Write 4/12 in simplest form

SET #10

1. ½ = ? %	2. ¼ = ? %
3. ¾ = ? %	4. 1/10 = ? %
5. 3/10 = ? %	6. Estimate 81 x 2
7. Estimate 143 ÷ 2	8. Estimate 19 x 19

SET #11

1. 4 000 + 2 000 + 50 + 40	2. 17 000 – 5 000
3. 2 x 7 x 5	4. Nearest ten: 689,2
5. 0.033 ÷ 10	6. What is the smallest common multiple of 8 and 10?
7. 64,2 x 100	8. ¼ + 1/2

SET #12

1. Which is larger 7/8 or 7/9?	2. How do you find the area of a rectangle?
3. Write 0.66 as a percent	4. What is the sum of the first 3 prime numbers?
5. 1/8 + 2/4 + 1	6. 8,3 – 4,5
7. 5/12 – 2/6	8. 0,5 + 0,25 + 0,25

SET #13

1. Write 1/5 as a decimal	2. Write in exponential notation sixteen to the seventh power.
3. 5/12 of 24	4. 0,3 x 0,5
5. 600 – 51	6. 5^2 x 3^2 is the prime factorization of what number?
7. 5 + 1 ¼	8. Write the ration of 6 blackbirds to 8 blackbirds

SET #14

1. Write 3 to the 5th power in standard form.
2. Write 0,75 in fraction form
3. How many minutes are in 12 hours?
4. 1 ½ - ¾
5. ¾ + ½
6. What is the probability of rolling a 6 on a fair die?
7. 3,2 – 1,4
8. 300 ÷ 25

SET #15

1. Write 0.25 as a percent
2. Six meters = ___ centimeters
3. ¼ + ¾
4. Two minutes = ____ seconds
5. Prime numbers between 20 and 30
6. Compare and order from least to greatest: ½, ¼, 1, ¾
7. What are the factors of 12?
8. 0,36 + 5

SET #16

1. Nearest tenth to: 8,475
2. 10 + 10 + 10 + 20 + 20
3. Find one-half of 886
4. What is 1/3 of 27?
5. Add: 347 + 653
6. Find the area of a square with sides of 5 meters
7. Compute: 1000 – 457
8. Find the perimeter of a rectangular garden whose length is 2 meters and whose width is 150 centimeters

SET #17

1. ½ of 5
2. How many centimeters are in 3 meters?
3. Is 3/8 closer to ½ or 1?
4. 3 hours 15 minutes = ___ minutes
5. Add: 11,3 + 12,81
6. Write the ratio of 6 green balls to 10 red balls in fraction form.
7. Compute: 16 – 1.84
8. 25 x 8

SET #18

1. 250 + 10 + 100
2. How many centimeters are in one kilometer?
3. Write in fraction form: 0.05
4. 5/8 – ½
5. Estimate: 4,6 + 6,2 + 7,84
6. 1,3 + 4,2
7. 3 ½ - 1 ½
8. The probability of getting a 2 or a 3 when you roll a die is ?

SET #19

1. 7 2/4 to the nearest whole number
2. How many months are in 11 years?
3. List the factors of 12
4. How many centimeters are in 1 kilometer?
5. Write 80% as a decimal
6. 5 + 3/7 + 4/7
7. 11 – 7 1/2
8. 4^2 + 4

SET #20

1. 200 + 5000 + 40
2. 4 700 – 400 - 100
3. List the factors of 14
4. 20 + 40 – 30 - 10
5. Write 0,55 as a percentage
6. 4 ¾ + ¾
7. 6 1/5 – 3/5
8. 5^2 + 5

SET #21

1. 7 x 500
2. 7,2 kilometers = ? centimeters
3. 70 x 7
4. How many centimeters in ¼ meter?
5. 1 500 ÷ 3
6. The greatest common factor of 12 and 18 is ?
7. Write 3 2/5 as an improper fraction
8. $7^2 + 7$

SET #22

1. The product of 7 and 60 is?
2. What is the least common multiple of 4 and 5?
3. 250 ÷ 5
4. Which is larger (4 x 52) or 200?
5. 2 x 9,50$
6. What is the greatest common factor of 12 and 20?
7. 296 + 104
8. Can you do 300 push-up in 7 days if you do 40 a day?

SET #23

1. Is 93 divisible by 2? 3?
2. Round 12,428 to the nearest hundredth
3. 45 ÷ 9 + 3
4. 24 000 ÷ 8
5. Round to nearest whole number: 8 2/5
6. Write 72% as a decimal
7. How many days are in 12 weeks?
8. 1/3 + 3 1/3 + 2

SET #24

1. Estimate 4,8 x 3
2. Is 75 divisible by 3? by 5?
3. 3 600 ÷ 9
4. The greatest common factor of 15 and 20 is ?
5. Write 90% as a fraction (simplest form)
6. 8 3/8 + 7/8
7. 56 – 3,8
8. A square has a perimeter of 36 cm, what is the area?

SET #25

1. Write 25% as a fraction (simplest form)
2. $3^2 + 4^2$
3. Round to nearest whole number: 7 6/11
4. Write 75% as a fraction (simplest form)
5. Write 4 7/8 as an improper fraction
6. A quadrilateral with only one set of parallel lines
7. Write 50% as a fraction (simplest form)
8. Minutes in 2 1/4 hours

SET #26

1. Write 50% in its decimal form
2. The greatest common factor of 8 and 24 is ?
3. Nearest dollar: $235,52
4. Write 30% in its decimal form
5. Which is larger (6 x 48) or 300?
6. What is the least common multiple of 6 and 8?
7. Write 10% in its decimal form
8. Change for $3,45 from $10,00

SET #27

1. What is 10% of 80?
2. 50 x 30
3. 7/8 + 1/8
4. What is 1/6 of 600?
5. Write 60% as a fraction (simplest form)
6. Which is greater: 0,302 or 0,32?
7. ½ = ?/10
8. How much time between 6:20 a.m. and 7:30 a.m?

SET #28

1. 600 x 40
2. 8 ½ - 2 ¼
3. What is 5% of 80?
4. List the prime factors of 35
5. Write 3/5 as a decimal
6. What is the least common multiple of 3 and 5?
7. Write 9 x 9 x 9 in exponential form
8. What is 1/5 of 300?

SET #29

1. What is 40% of 70?
2. What is 2/3 of 18?
3. Write 0,67 as a percent
4. What number is halfway between 50 and 100?
5. 3,7 – 0,9
6. How much time between 9:00 a.m. and 3:30 p.m.?
7. Write 7 x 7x 7 x 7 in exponential form
8. Change for $7,55 from $20,00

SET #30

1. Estimate 21,13 – 8,7
2. Estimate 21,92 + 0,82
3. Estimate 4,9 x 3,2
4. Write ¼ as a percent
5. 64 – 2,8
6. What is the largest prime factor of 100?
7. 2 4/8 + ½
8. What is the largest: 1/3, ¼, or ½

SET #31

1. What is 50% of 80%
2. Find the least common multiple of 6 and 4
3. 148 ÷ 4
4. Write the first four positive multiples of 7
5. The greatest common factor of 24 and 32
6. Write the prime factorization for 12
7. Write ¾ as a percent
8. Perimeter of triangle 11 cm on each side

SET #32

1. What is 60% of 50?
2. 3 300 ÷ 30
3. 4 x 6 x 100
4. Which is larger: -3 or -2?
5. Meters in 500 centimeters
6. What is the greatest common factor of 35 and 21?
7. Which is larger : 3 or 24/8?
8. Write 5 x 5 x 5 x 5 x 5 x 5 in exponential form

SET #33

1. What is 3/2 of 10?
2. What is ¾ of 800?
3. Write 9/20 as a percent
4. Estimate 173 ÷ 17
5. Estimate 52 x 37
6. What is larger: - 4,25 or -1,5
7. Estimate 88 – 22
8. List the prime factors of 21

SET #34

1. Write 0,7 as a fraction (simplest form)
2. 1/4 + 2/4 + 5
3. Estimate: 159 ÷ 16
4. Write 0,5 as a fraction (simplest form)
5. Smallest multiple of 5 and 8
6. Estimate 37 x 4
7. Write 0,9 as a fraction (simplest form)
8. 2 weeks after the 8th of the month

SET #35

1. What is 5% of 50?

2. 400 - 99

3. 4 ¼ + ? = 5

4. Round to nearest whole number: 3 7/17

5. Write 1 ½ as a decimal

6. What percent is 3 out of 4?

7. ¼ + ½

8. Which is longer, 700 meters or 0,689 kilometer?