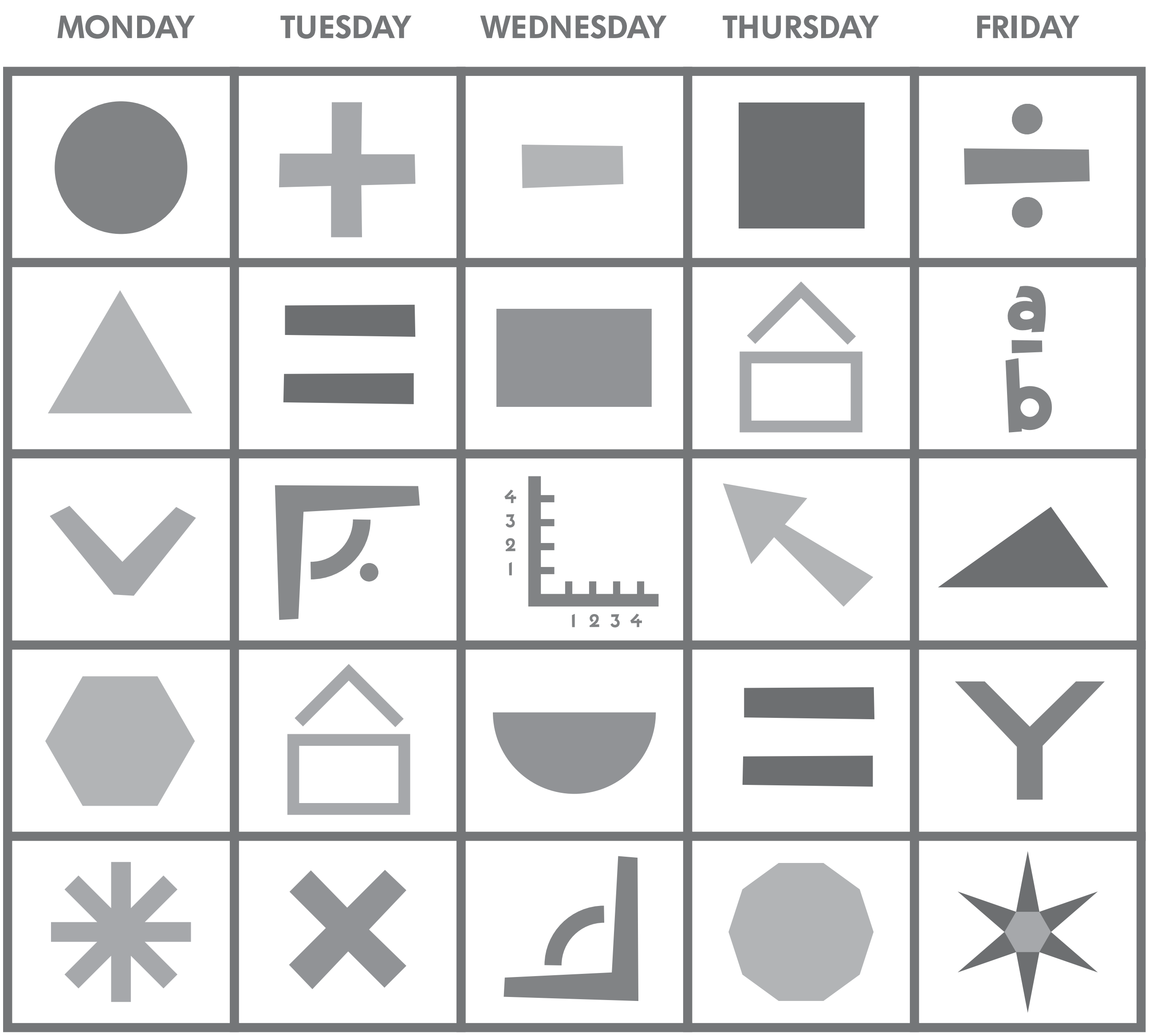
Daily Mental Math

Grade 10



Dr. Anne Paterson

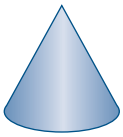
Week 1

Day 1

1. $\sqrt{0.81}$ = _____
2. 0.9 + 0.09 = _____
3. 0.9 – 0.09 = _____
4. 0.9 × 0.09 = _____
5. 0.9 ÷ 0.09 = _____
6. Draw a **prime factor tree** for the number 12.

7. The **symbol** for **millionths** is _____.
8. How many **square meters** are there in a two-meter-by-two-meter **square**? _____
9. Part of a circle that can be drawn without lifting a pencil is called an _____.
10. 3 cm = _____ mm
11. How many **milliseconds** are there in one second?

12. When a circle shape is cut from a **cone**, it is called a c_____ section.



13. How many **sides** does a **rhombus** have?_____
14. $3 ÷ $0.25 = _____
15. How many **years** are there in a **century**? _____
16. 23 + 29 = _____
17. Find the **cost** of 15 hamburgers at $2.85 each.

18. Express 1962 in **Roman numerals**.

19. How many **kilometers** are there in a **nautical mile**?

20. $9^2 – 7^2$ = _____

Score: /20 %

Day 2

1. 0.9^2 = _____
2. 0.9 + 0.08 = _____
3. 0.9 – 0.08 = _____
4. 0.9 × 0.08 = _____
5. Express 0.9 ÷ 0.08 as a **fraction.** _____
6. Draw a different **prime factor tree** for 12.

7. A **half line** is called a _____.
8. How many **square feet** are there in a one-foot-by-one-foot **square**?

9. The **symbol** for **micro** is _____.
10. 200 cm = _____ m
11. How many **millimeters** in one meter? _____
12. What happens to water when its **temperature** reaches 100˚C? _____
13. How many **sides** does a **nonagon** have?

14. $3 ÷ $0.15 = _____
15. How many **years** does a **bicentennial** commemorate? _____
16. 24 + 28 = _____
17. Find the **cost** of 14 hamburgers at $2.95 each.

18. Express 1961 in **Roman numerals**.

19. How many **kilometers** will a boat travel in an hour if it is traveling at **one knot**?

20. $8^2 – 5^2$ = _____

Score: /20 %

Week 1

Day 3

1. $\sqrt{0.49}$ = _____
2. 0.9 + 0.07 = _____
3. 0.9 – 0.07 = _____
4. 0.9 × 0.07 = _____
5. Express 0.9 ÷ 0.07 as a **fraction.** _____
6. If all **points** are on the same **plane**, they are cop_____.
7. Are 10, 24, and 26 a **Pythagorean triple**? **Yes** **No**
8. How many **square meters** are there in a three-meter-by-three-meter **square**? _____
9. If Lianni **saves** $24 per week, how much does she save in a year?

   _____
10. $\frac{3}{4}$ m = _____ cm
11. What is the tenth number in this **sequence**?

    4, 10, 16, 22, … , _____
12. A **fixed quantity** is called a c_____.
13. How many **sides** does a **kite** have? _____
14. If Lauren's heart beats 68 times per minute, how many times does it beat in one hour?

    _____
15. 25 + 27 = _____
16. How many **square meters** is a **hectare**?

    _____
17. If Pietro's **average** after three tests is 88%, what must he score on his next test to make his **average** 90%?

    _____
18. Express 1957 in **Roman numerals**.

    _____
19. $2^2 \times 10$ = _____
20. How many **dozen** are there in 12? _____

Score: /20 %

Day 4

1. 0.7^2 = _____
2. 0.9 + 0.06 = _____
3. 0.9 – 0.06 = _____
4. 0.9 × 0.06 = _____
5. Express 0.9 ÷ 0.06 as a **simplified fraction.**

   _____
6. A **decagon** is a _____-sided 2-D shape.
7. Are 7, 24, and 25 a **Pythagorean triple**? **Yes** **No**
8. Draw a **hyperbola**.

9. If Lianni **saves** $30 per week, how much does she save in a year? _____
10. One thousand, five hundred **meters** is _____ km.
11. The **prime factors** of 69 are _____.
12. An example of something **finite** is _____

    _____.
13. How many **sides** does a **chevron** have? _____
14. How many **years** are there in a **sesquicentennial**?_____
15. 360 ÷ 9 = _____
16. How many square meters are there in a **hectare**? _____
17. How many games has the soccer team played if the team is $\frac{3}{4}$ of the way into the season with five games left to play?

    _____
18. Express 1964 in **Roman numerals**.

    _____
19. Find the **reciprocal** of 0.3. _____
20. How many **dozen** are there in 24? _____

Score: /20 %

Week 2

Day 1

1. 0.8^2 = _____
2. 0.9 + 0.05 = _____
3. 0.9 – 0.05 = _____
4. 0.9 × 0.05 = _____
5. 0.9 ÷ 0.05 = _____
6. An **angle** is formed when two r_____ join at a **vertex**.
7. Are 5, 12, and 13 a **Pythagorean triple**? **Yes** **No**
8. How many **square feet** are there in a four-foot-by-four-foot **square**? _____
9. How many **milligrams** is one gram? _____
10. 1750 m = _____ km
11. Rewrite 0.245×10^3 in **regular notation**.

    _____
12. An example of something **infinite** is _____

    _____.
13. A **decagon** has _____ sides and is a _____-dimensional shape.
14. The **prime factors** of 87 are _____.
15. **Half** of 132 is _____.
16. If the **product** of a number and 1.5 is 7.5, what is the number?

    _____
17. If Audrey's **average** after three tests is 68%, what must she score on her next test to make her average 70%?

    _____
18. Express 1970 in **Roman numerals**.

    _____
19. 3 – 0.5 = _____
20. Is a set of **negative numbers** finite or infinite?

    (a) finite (b) infinite

Score: /20 %

Day 2

1. $\sqrt{0.64}$ = _____
2. 0.9 + 0.04 = _____
3. 0.9 – 0.04 = _____
4. 0.9 × 0.04 = _____
5. Express 0.9 ÷ 0.4 as a **fraction.** _____
6. What does the scale **degrees Celsius** measure? _____
7. Are 14, 48, and 50 a **Pythagorean triple**? **Yes** **No**
8. How many **square feet** are there in a five-foot-by-five-foot **square**?

    _____
9. How many **milliliters** is one liter? _____
10. 2250 m = _____ km
11. Rewrite 0.345×10^2 in **conventional notation**.

    _____
12. An **angle** is two **rays** joined at a v_____.
13. A **decahedron** has _____ sides and is a _____-dimensional shape.
14. The **prime factors** of 70 are _____.
15. **Double** 39. _____
16. If the **product** of a number and 1.2 is 0.96, what is the number?

    _____
17. If $^2/_3$ of an amount is 50, what is the amount?

    _____
18. Express 1958 in **Roman numerals**.

    _____
19. 4 – 0.6 = _____
20. Is the set of **decimal numbers** between 1.4 and 1.5 finite or infinite?

    (a) finite (b) infinite

Score: /20 %

Week 2

Day 3

1. $\sqrt{0.01}$ = _____
2. 0.9 + 0.03 = _____
3. 0.9 – 0.03 = _____
4. 0.9 × 0.03 = _____
5. 0.9 ÷ 0.03 = _____
6. If Storm runs 100 m in 10 seconds, what is her **speed** in km/h? _____
7. **Increase** $500 by 12%. _____
8. How many **square feet** are there in a six-foot-by-six-foot **square**? _____
9. $^3/_4$ × _____ = 6
10. 3750 m = _____ km
11. In geometry, a **path** that can be drawn in a plane without lifting a pencil is called a c_____.
12. Correct 0.00456 to three decimal places. _____
13. Name a **quadrilateral** with both pairs of sides parallel.

    _____
14. $81^{1/2}$ = _____
15. A **quarter** of 120 is _____.
16. Find the tenth number in the **sequence**.

    19, 18, 17, … , _____
17. Chandra buys two raffle tickets. If 500 tickets were sold, what are his **chances** of winning?

    _____
18. Express 1953 in **Roman numerals**.

    _____
19. Which of the **angles** in a **rhombus** are equal in size?

    (a) all four

    (b) the diagonal angles

    (c) none
20. 5 – 0.7 = _____

Score: /20 %

Day 4

1. 0.1^2 = _____
2. 0.9 + 0.02 = _____
3. 0.9 – 0.02 = _____
4. 0.9 × 0.02 = _____
5. 0.9 ÷ 0.02 = _____
6. Half of **three and a half million dollars** is _____.
7. Which number **divided** by 0.2 results in 10? _____
8. How many **square feet** are there in a seven-foot-by-seven-foot **square**? _____
9. Two-thirds of _____ = 12
10. 1 ha = _____ m^2
11. The number of hours students spend watching television could be shown on a f_____ g_____.
12. Correct 0.00789 to three decimal places. _____
13. A **polygon** with four sides is known as a _____.
14. $8^{1/3}$ = _____
15. How many bags of 30 sweets can be made with 150 sweets? _____
16. Find the tenth number in the **sequence**.

    19, 18.5, 18, … , _____
17. James buys four tickets in a raffle. If his chances of winning are $^1/_{125}$, how many tickets have been sold? _____
18. Express 1947 in **Roman numerals**.

    _____
19. Which sides of a **rhombus** are equal in length?

    (a) all four

    (b) the opposite pairs
20. 6 – 0.8 = _____

Score: /20 %