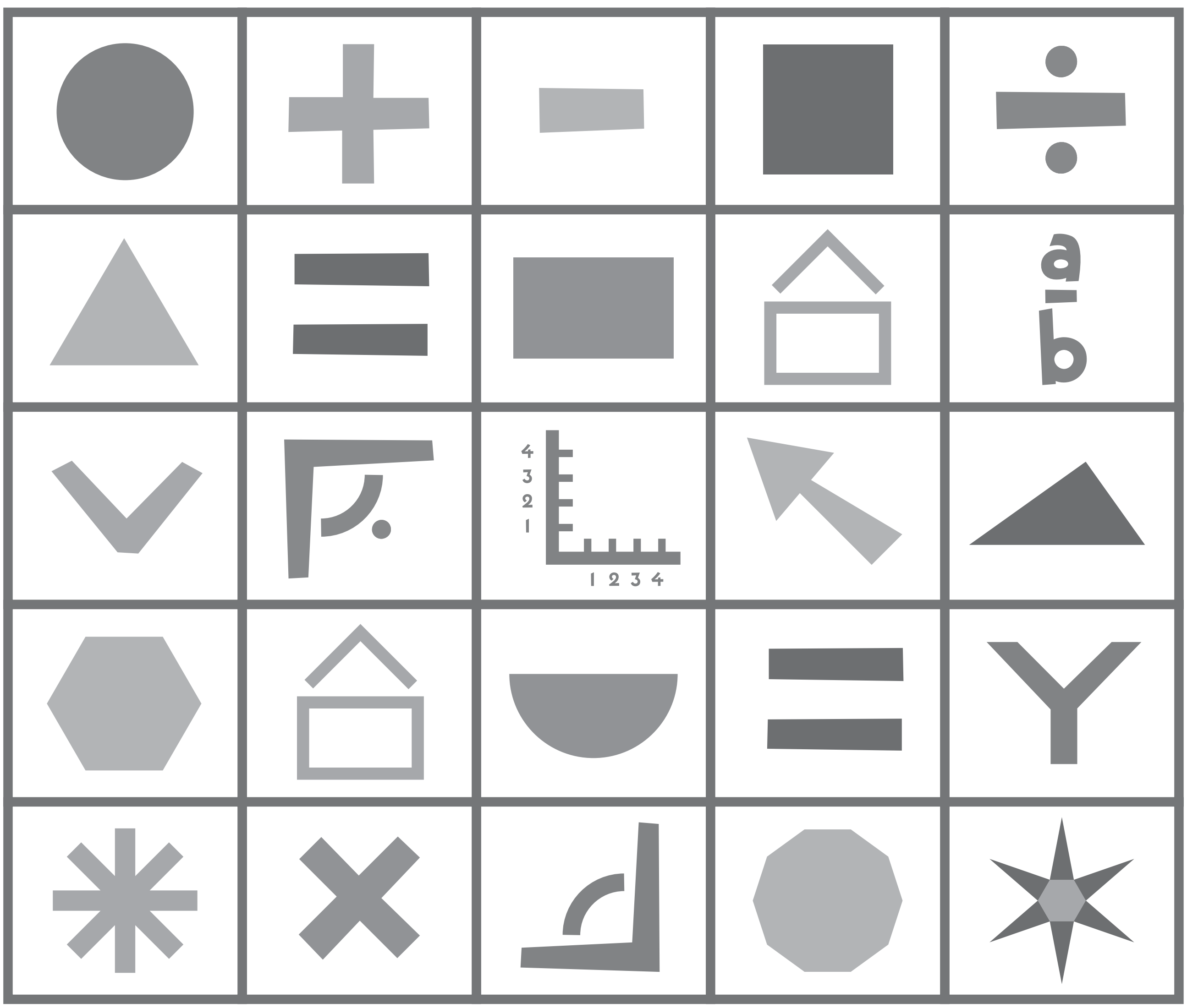
Daily Mental Math

Grade 8

MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY



Dr. Anne Paterson

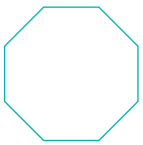
Week 1

Day 1

1. $\sqrt{4}$ = _____
2. 1 + 0.1 = _____
3. 1 × 0.1 = _____
4. 1 – 0.1 = _____
5. 1 ÷ 0.1 = _____
6. 1×10^1 = _____
7. $4 – $2.80 = _____
8. Find the **mean** (average) for the **set**: 12, 13, 15, 17, 18.

   _____
9. **Perpendicular** lines meet at which type of **angle**?

   _____
10. Name an everyday example of an **octagon**.

    _____.
11. How many **faces** does a **tetrahedron** have? _____
12. What instrument is used to draw **circles**?

    _____
13. A recipe needs 300 mL of water for each 500 g of flour. How much water is needed for 750 g of flour?

    _____
14. Four less than x = _____.
15. The **sum** of the **addends** 11 and 15 is

    _____.
16. 25% of $200 is _____.
17. **Expand** $4(a + 3)$. _____
18. 15 + 10 – 7 = _____
19. If $f = 3$, find the **value** of $3f$. _____
20. How many years are there between 1200 BCE and 60 CE? _____

Score: /20 %

Day 2

1. Can $\sqrt{2}$ be a **whole number**? **Yes** **No**
2. 1 + 0.2 = _____
3. 1 × 0.2 = _____
4. 1 – 0.2 = _____
5. 1 ÷ 0.2 = _____
6. 1×10^2 = _____
7. $6.20 + $4.90 = _____
8. Find the **median** for the set of numbers in Day 1, Question 8.

   _____
9. Railroad tracks run p_____ to each other.
10. How many **edges** are there on a **dodecagon**? _____
11. How many **faces** are there on a **dodecahedron**? _____
12. What instrument is used to measure **angles** drawn on paper?

    _____
13. **Simplify** 2:4. _____
14. 8 and y, shared among 4 = _____.
15. The **product** of 3 and 4 is _____.
16. **Reduce** $250 by 40%. _____
17. **Factor** $3pq – 6p^2$.

    _____
18. 400 – (4 × 9) = _____
19. $^1/_4$ of 100% is _____.
20. How many years are there between 900 BCE and 620 CE?

    _____

Score: /20 %

Week 1

Day 3

1. $\sqrt{9}$ = _____ 2. 1 + 0.3 = _____
3. 1 × 0.3 = _____ 4. 1 – 0.3 = _____
5. 1 ÷ 0.3 = _____
6. If a bricklayer lays 600 bricks in eight hours, how many bricks are laid **per hour**?

   _____
7. 50% of $150 = _____
8. The **range** of the **set** of scores 12, 13, 13, 13.5, 14, 16, 16.5, 17 is _____.
9. Individual measurements on a **line graph** are called p_____s.
10. How many edges (sides) does an **pentagon** have? _____
11. The hyphenated term for a shape produced by cutting through a 3-D object is

    _____ - _____.
12. Express $^{10}/_{3}$ as a **mixed number**. _____
13. In a package of 60 crackers, 5% are broken. How many is this? _____
14. Five less than 100 = _____.
15. Draw a set of **parallel lines**.

16. The United States has 50 states. How can these be displayed as an **array**?

    _____
17. **Per annum** means _____.
18. How many apples does each person get if a box of 72 apples is shared equally among six people? _____
19. A marathon runner's **speed** is 9 mph. What speed is this in feet per hour? _____
20. If $r = 12$, find the value of $r - 7$. _____

Score: /20 %

Day 4

1. $\sqrt{1}$ = _____ 2. 1 + 0.4 = _____
3. 1 × 0.4 = _____ 4. 1 – 0.4 = _____
5. 1 ÷ 0.4 = _____
6. Twenty-gram chocolate frogs sell for 60¢ each or $4 for a bag of 20. How much does each frog in the bag **cost**? _____
7. For Question 6, how much **profit** is made by selling 20 frogs individually? _____
8. The **mode** for the set of scores 11, 12, 12, 12, 13, and 15 is _____.
9. The **probability** of an impossible event is _____.
10. How many **faces** are there on an **octahedron**? _____
11. The correct name for an **oval** is an e_____.
12. **Simplify** $^{20}/_{55}$. _____
13. In a box of 20 tiles, 15% are broken.

    How many tiles is this? _____
14. Five less than y = _____.
15. Draw an **octagon**.

16. $^{1}/_{2} + {}^{1}/_{2}$ = _____

17. If two objects are **congruent**, they are the

    _____.
18. How many children are there in a crowd of 6900 if the **proportion** is 10 percent?

    _____
19. Add 20% to $18. _____
20. If $f = 3$, find the value of f^3. _____

Score: /20 %

Week 2

Day 1

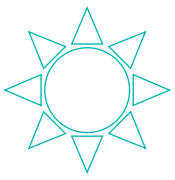
1. $\sqrt{16}$ = _____
2. 1 + 0.5 = _____
3. 1 – 0.5 = _____
4. 1 × 0.5 = _____
5. 1 ÷ 0.5 = _____
6. $5 – $2.80 = _____
7. 50% of 170 = _____
8. If the letters B, A, R, and T are placed in a hat, what **chance** is there of selecting a vowel?

   _____
9. 30 – _____ = 16
10. How many **faces** on a **triangular prism**? _____
11. Draw a **hexagon**.
12. 7.05 > 7.1 **True** **False**
13. If water flows from a tap at a **rate** of 0.125 liters per second, how many seconds does it take to fill an 8-liter bucket?

    _____
14. Six less than y = _____.
15. **Simplify** 21:28. _____
16. $^1/_4 + {}^3/_4$ = _____
17. How much money do I need each week if a bus trip costs 50 cents and I ride twice a day, five days a week?

    _____
18. The **probability** that an event will certainly happen is _____.
19. How many books are for sale if a **third** of 420 are for sale? _____
20. This shape has **rotational symmetry** to the order of

    _____.



Score: /20 %

Day 2

1. 4^2 = _____
2. 1 + 0.6 = _____
3. 1 – 0.6 = _____
4. 1 × 0.6 = _____
5. 1 ÷ 0.6 = _____
6. $15 – $2.80 = _____
7. 50% of 178 = _____
8. If the letters L, I, S, and A are placed in a hat, what **chance** is there of selecting a vowel?

   _____
9. 57 – _____ = 29
10. Name an everyday example of a **platonic solid**. _____
11. Draw a **trapezoid**.
12. 0.60 > 6/10 **True** **False**
13. What **unit of measure** would be used to calculate the **volume** of your classroom? _____
14. Seven more than $3p$ = _____.
15. Simplify 36:48. _____
16. $^1/_4 + {}^1/_4$ = _____
17. What are the first five **multiples** of 4?

    _____
18. **Figures** that are the same **shape** are

    s_____.
19. How many children are in a crowd of 7900 if the **proportion** is 20%?

    _____
20. Figures that are the same **size** and **shape** are

    c_____.

Score: /20 %

Week 2

Day 3

1. $\sqrt{25}$ = _____
2. 1 + 0.7 = _____
3. 1 – 0.7 = _____
4. 1 × 0.7 = _____
5. 1 ÷ 0.7 = _____
6. $15 – $12.80 = _____
7. 50% of 230 is _____.
8. A **pattern** in **data** is a _____.
9. Find the **mean** (average) of the set: 5, 6, 7, 8, 9. _____
10. Name the **shape** of a **face** of an **icosahedron**. _____
11. Draw **perpendicular** lines.
12. Write 0.01 as a **fraction**. _____
13. **Convert** 12 km to meters. _____
14. 9 **multiplied** by 12 = _____.
15. Write an example of something that would be measured in **gallons**. _____
16. $^1/_8 + {}^7/_8$ = _____
17. If the letters from your first name were placed in a hat, what **probability** is there of selecting a vowel? _____
18. During a game of football, Team A is ahead of Team B by 18 points. If a touchdown is worth six points, what is the difference in the number of touchdowns scored?

    _____
19. 52 – _____ = 41
20. If $b = 5$, the value of $b \times 5$ is _____.

Score: /20 %

Day 4

1. 5^2 = _____
2. 1 + 0.8 = _____
3. 1 – 0.8 = _____
4. 1 × 0.8 = _____
5. 1 ÷ 0.8 = _____
6. $6 – $2.80 = _____
7. 50% of 3200 = _____
8. **The greatest value** in a **data set** is called the _____.
9. What is the **mean** (average) of the set: 3, 4, 5, 6, 7? _____
10. How many **faces** are there on an **icosahedron**? _____
11. Draw a **rhombus**.
12. 0.04 × 2 = _____
13. **Convert** 12.5 km into meters. _____
14. Estimate the **volume** of your classroom.

    _____
15. What might be measured in cm^3?

    _____
16. $^1/_3 + {}^2/_3$ = _____
17. If the letters H, O, M, E, and R are placed in a hat, what **chance** is there of selecting a vowel?

    _____
18. During a game of football, Team A is ahead of Team B by 35 points. If a touchdown is worth six points, what is the approximate difference in the number of touchdowns scored?

    _____
19. 37 – _____ = 26
20. If $c = 6$, the value of $2c$ is _____.

Score: /20 %