Grade 5 Mathematics

1. Which is the ratio that compares the value of a “loonie” to a nickel?

A. 100:5
B. 20:5
C. 1:5
D. 10:1

2. Which is 3.2 million?

A. 3 200 000
B. 32 000 000
C. 3 000 000.2
D. 3 200 000.2

3. Which number is greatest?

A. 523 147
B. 999 999
C. 1 012 003
D. 1 003 118

4. 3 is a factor of one of these numbers. Which one?

A. 34
B. 304
C. 361
D. 81

5. Which digit in the product is in the hundreds place when you multiply 348×7?

A. 1
B. 2
C. 3
D. 4

6. A ball costs $0.59. How much do 5 balls cost?

A. $2.55
B. $2.59
C. $2.65
D. $2.95

7. Which is greatest?

A. 3.14×7
B. 4.28×6
C. 5.95×5
D. 3.99×7

8. To find 6×8, which could you do?

A. 3×4 plus 3×4
B. 4×8 plus 2×8
C. 3×5 plus 3×3
D. 4×6 plus 2×2

9. **Your calculator display shows 34 856.**
You keep multiplying by 0.01.
How many times must you multiply before the answer is less than 1?

A. 1
B. 2
C. 3
D. 4

10. **Which is the same as 16×25?**

A. 32×50
B. 8×100
C. 4×50
D. 4×100

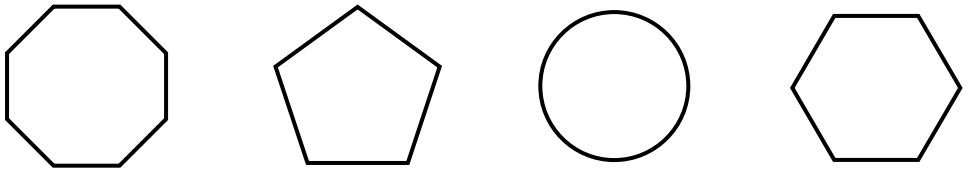
11. **The perimeter of an equilateral triangle is 39 cm.**
How many centimetres long is each side?

A. 13
B. 36
C. 42
D. 117

12. **A square is 11 cm on a side. Which is its area?**

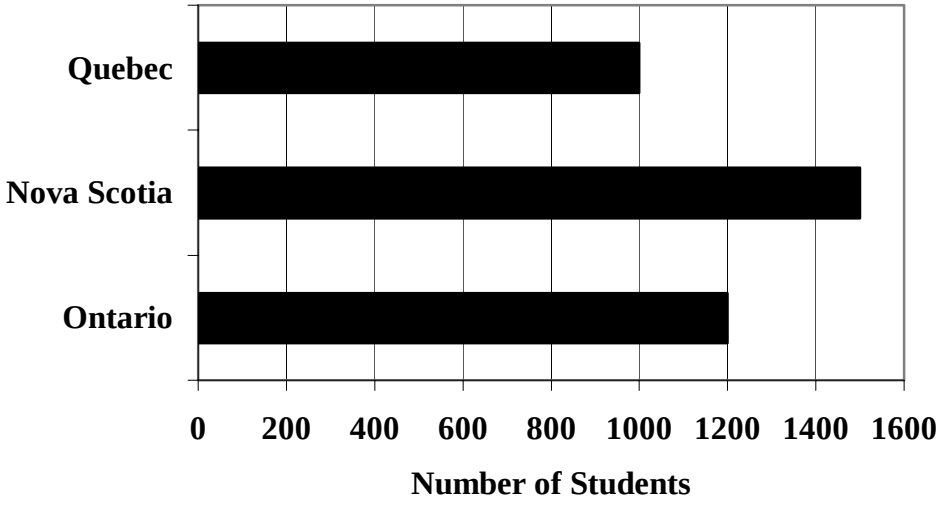
A. $11\ cm^2$
B. $44\ cm^2$
C. $121\ cm^2$
D. $242\ cm^2$

13. Which shape could you use as a floor tile and leave no gaps?



A. **B.** **C.** **D.**

14. Some students visited other provinces during their holidays.



How many more students went to Nova Scotia than to Quebec?

A. 900 students
B. 500 students
C. 300 students
D. 200 students

15. The stem-and-leaf plot below shows the heights of students in a class.

11	**7**	**8**	**6**		
12	**2**	**3**	**5**	**7**	**8**
13	**1**	**4**	**9**		
14	**0**	**2**			

What is the height of the tallest student?

A. 78 cm
B. 116 cm
C. 142 cm
D. 1402 cm

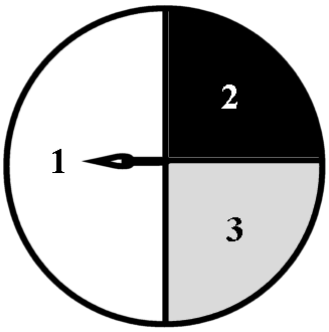
16. What is the probability of spinning the number 1 on this spinner?

A. $\frac{1}{4}$

B. $\frac{1}{3}$

C. $\frac{1}{2}$

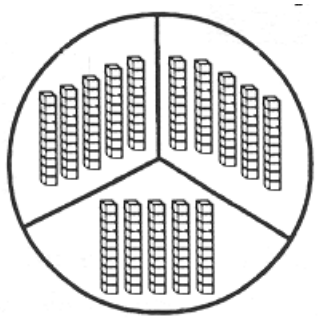
D. $\frac{2}{3}$



17. Write the numeral for "three hundred thousand, four hundred ten".

18. Write a fraction that is greater than $\frac{3}{4}$.

19. Which division is modelled?



20. The perimeter of a rectangle is 28 units.
What might be the dimensions of the sides?

Length = _____
Width = _____

21. Julie wants to add 47 + 9. She thinks 47 + 10 = 57. What does she need to do next? Why?

22. A rectangle is long and skinny. If the perimeter is 30 cm, what could the length and width be? Explain.

Mental Math

1. $8 \times 6 =$ _____

2. $72 \times 100 =$ _____

3. $14 \times 11 =$ _____

4. $4 \times 122 =$ _____

5. $5 \times 35 \times 2 =$ _____

6. $5 \times 99 =$ _____

7. $25 \times 44 =$ _____

8. $276 \times 0.1 =$ _____

9. Half of 640 = _____

10. $600 - 298 =$ _____

11. $57 \div 10 =$ _____

12. Estimate: 14.9×3.8 _____

Answer Key

1. A
2. A
3. C
4. D
5. D
6. D
7. C
8. B
9. C
10. D
11. A
12. C
13. D
14. B
15. C
16. C
17. 300 410
18. $\frac{7}{8}$ $\frac{8}{9}$ $\frac{9}{10}$ (examples)
19. $150 \div 3$
20. 7 and 7, 8 and 6, 9 and 5 (examples)

21. Julie wants to add 47 + 9. She thinks 47 + 10 = 57. What does she need to do next? Why?

Maximum Value: 2 points

2 points Indicate that Julie needs to subtract 1 or take away 1 from 57 (implicit or implied)

AND

Give the reason: Julie added on one too many

OR

because 10 is one more than 9

1 point One of the above

Not Acceptable:

- Only the answer
- Only the words “subtract” or “take away”

22. A rectangle is long and skinny. If the perimeter is 30 cm, what could the length and width be? Explain.

Maximum Value: 2 points

2 points Length ≥ 10

AND

Correct rectangle length and width

AND

An explanation that lengths and widths are added to find the perimeter

OR

An explanation that the length and width are added, then multiplied by 2

OR

A drawing that indicates how length(s) and width(s) are used to find the perimeter

1 point Length ≥ 10

AND

Correct rectangle length and width

OR

An explanation or drawing that shows how length and width are used to find the perimeter

Notes:

- A drawing is not required.
- The unit of measurement is not required.
- A drawing with labelled lengths and widths does not count as an explanation.

Mental Math

1.	$8 \times 6 =$	**48**
2.	$72 \times 100 =$	**7200**
3.	$14 \times 11 =$	**154**
4.	$4 \times 122 =$	**488**
5.	$5 \times 35 \times 2 =$	**350**
6.	$5 \times 99 =$	**495**
7.	$25 \times 44 =$	**1100**
8.	$276 \times 0.1 =$	**27.6**
9.	Half of 640 =	**320**
10.	$600 - 298 =$	**302**
11.	$57 \div 10 =$	**5.7**
12.	Estimate: 14.9×3.8	**60**