

Number Operations

1. What is the product of 5.263 and 3?

- (A) 15.689
- (B) 15.789
- (C) 156.89
- (D) 157.89

2. What is 9.66 divided by 7?

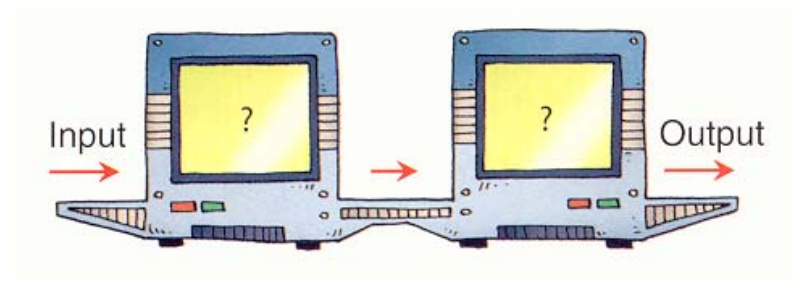
- (A) 0.138
- (B) 1.38
- (C) 13.8
- (D) 138.0

3. Calculate:

$$6 \overline{)2.466}$$

- (A) 0.0411
- (B) 0.411
- (C) 4.11
- (D) 41.1

4. The number 8 was put in the function machine below. The output was 8. What is the function?



- (A) $\div 2 + 4$
(B) $\times 2 + 1$
(C) $\div 2 + 3$
(D) $\times 2 - 7$
5. A bottle of water costs \$1.79. How much would it cost to purchase 6 bottles of water?

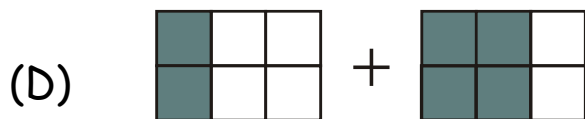
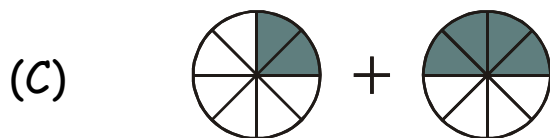
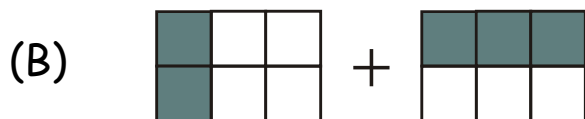
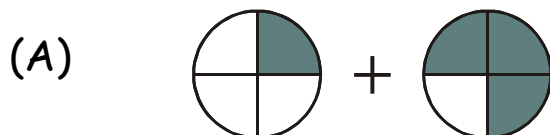
- (A) \$6.24
(B) \$6.74
(C) \$10.74
(D) \$10.80

6. Calculate.

$$69.9 \div 0.3$$

- (A) 0.23
- (B) 2.33
- (C) 23.3
- (D) 233

7. Which shaded regions represent $\frac{1}{3} + \frac{1}{2}$?

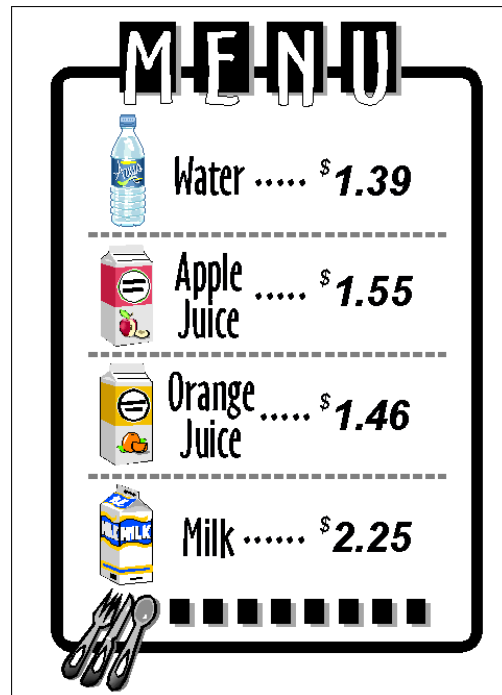


8. Which is equivalent to 1.23×10 ?

- (A) $1.23 \div 0.001$
- (B) $1.23 \div 0.01$
- (C) $1.23 \div 0.1$
- (D) $1.23 \div 1$

9. Lisa purchased 2 containers of orange juice, 1 milk and 2 bottles of water. What was the total cost of her drinks?

- (A) \$5.10
- (B) \$6.65
- (C) \$6.95
- (D) \$7.95



10. Calculate.

$$1.92 \times 1.4$$

- (A) 0.960
- (B) 2.688
- (C) 9.600
- (D) 26.88

1. The table shows the prices of items at a music store on Tax-Free Day.

| Items | Cost |
|------------|---------|
| CD | \$12.25 |
| MP3 Player | \$23.95 |
| DVD | \$22.75 |
| Headphones | \$9.95 |

Pat was charged over \$50.00 for a CD, MP3 Player and headphones. How did he **immediately** know the clerk charged the wrong amount?

Explain your answer using words and numbers.

2a) Solve: $0.2 \times 0.4 =$ _____

b) Explain the position of the decimal in the product.

3a) Write a story problem you can solve by dividing
18.30 by 6.

b) Solve your problem.

4. Andrew said the answer to $1\frac{1}{2} - \frac{1}{3}$ is less than 1.

Is he correct? _____

Use words, pictures and numbers to explain your answer.



Number Concepts

11. The chart shows the area of four countries. Order the countries from least to greatest area.

| Country | Area (km ²) |
|---------|-------------------------|
| Canada | 9 984 670 |
| China | 9 596 960 |
| Egypt | 1 001 450 |
| Russia | 17 075 200 |

least.....greatest

- (A) Egypt, Canada, China, Russia
(B) Egypt, China, Canada, Russia
(C) Russia, China, Canada, Egypt
(D) Russia, Canada, China, Egypt
12. Which decimal number is the same as 34 750 000?
- (A) 0.3475 million
(B) 3.475 million
(C) 34.75 million
(D) 347.5 million

13. Which number is closest to the fraction $\frac{16}{3}$?

- (A) 5
- (B) 6
- (C) 13
- (D) 14

14. The ratio of boys to girls in a choir is 1:5. If there are 5 boys, what is the total number of students in the choir?

- (A) 10
- (B) 25
- (C) 26
- (D) 30

15. In a grade 6 class 75% of the students have brown hair. What is the ratio of brown-haired students to the whole class?

- (A) 1 : 75
- (B) 1 : 4
- (C) 3 : 4
- (D) 7 : 5

16. What is $40\,000\,000 + 5\,000\,000 + 20\,000 + 8\,000 + 60$ in standard form?

- (A) 45 286
- (B) 452 860
- (C) 40 528 060
- (D) 45 028 060

17. What are two common factors for 12 and 30?

- (A) 3 and 5
- (B) 3 and 6
- (C) 4 and 5
- (D) 4 and 6

1a) Place each number in the appropriate place on the number line.

$3\frac{3}{4}$ million 5 500 000 $6\frac{1}{4}$ million 4.2 million



b) Choose two of these numbers and explain how you decided where to place them.

| Number | My explanation |
|--------|---|
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2. There are 20 students in a grade 6 class. Six of the students are girls.

a) What is the ratio of girls to boys? _____

b) Write an equivalent ratio for your answer in a).

My equivalent ratio: _____

Use words, pictures and numbers to explain why these two ratios are equivalent.

My explanation:

3. Morgan read the number forty-two million three hundred five thousand three. He then recorded it as 42 353.

a) Is he correct? _____

b) Explain your answer.



Shape and Space

18. A Grade 6 student grew 29 millimetres (mm) in a year. How many centimetres (cm) did the student grow?

- (A) 0.29
- (B) 2.9
- (C) 29
- (D) 290

19. The area of a whiteboard is 6 square metres (m^2). What is the area in square centimetres (cm^2)?

- (A) 0.0006
- (B) 0.06
- (C) 600
- (D) 60 000

20. An elephant has a mass of 6300 kilograms (kg). How many tonnes (t) does it weigh?

- (A) 0.63
- (B) 6.3
- (C) 630 000
- (D) 6 300 000

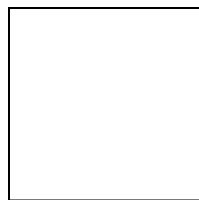
21. Which three angles can form a triangle?

- (A) 30° , 40° , 120°
- (B) 45° , 45° , 90°
- (C) 90° , 90° , 60°
- (D) 60° , 60° , 70°

22. The length of a rectangle is 10 cm. Its area is 50 cm^2 .
What is the perimeter of the rectangle?

- (A) 30 cm
- (B) 40 cm
- (C) 60 cm
- (D) 500 cm

23. What is the order of rotational symmetry of this figure?

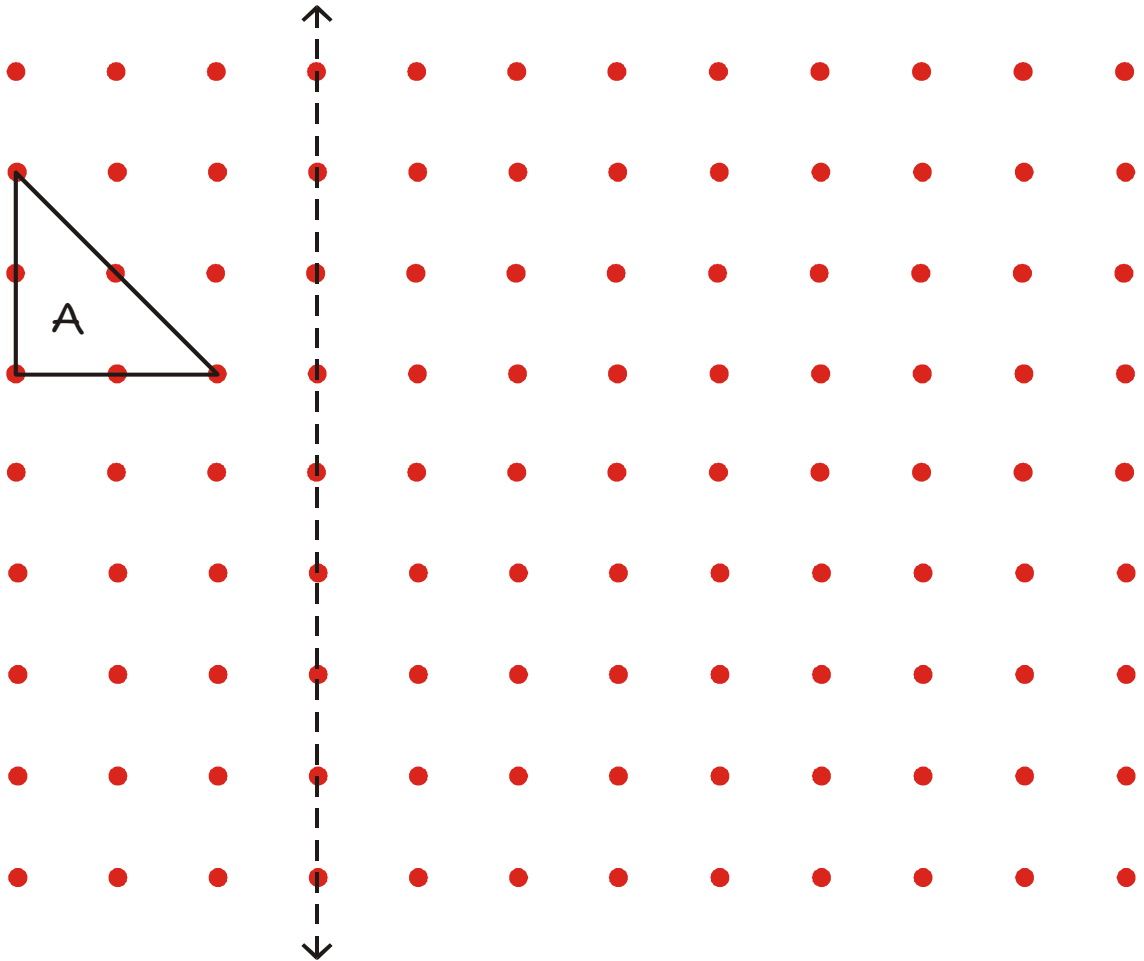


- (A) 2
- (B) 3
- (C) 4
- (D) 5

24. The volume of a yogurt tube is 145 cm^3 . What is the capacity of the tube in millilitres (mL)?

- (A) 1.45
- (B) 14.5
- (C) 145
- (D) 1450

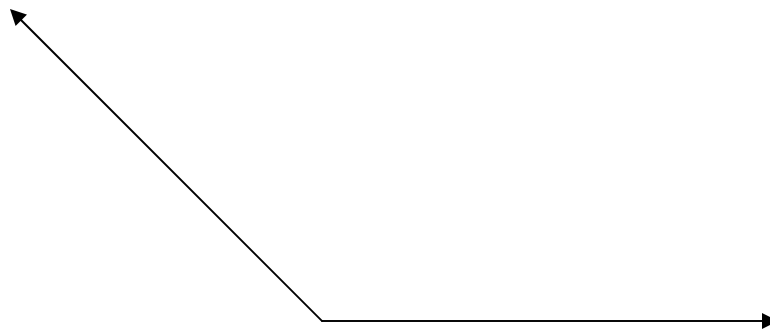
1a) Draw a reflected image of Triangle A across the mirror line. Label the new triangle B.



b) On the same dot paper, translate triangle B two units right and three units down. Label the new triangle C.

2a) Draw an angle which measures 80° using a ruler and a protractor.

b) Use your protractor to measure this angle.



My Answer: _____^o

3. Draw **two** different quadrilaterals that each have an area of 16 square units.

