Choose a circle to show how much each sentence is like you	Very Unlike Me	Unlike Me	Like Me	Very Like Me
	1	2	3	4
01. I like maths at school.	○	○	○	○
02. I am good at maths.	○	○	○	○
03. My teacher thinks I am good at maths.	○	○	○	○
04. My Mum and Dad think I am good at maths.	○	○	○	○
05. I enjoy doing maths in my own time (not at school).	○	○	○	○
06. I enjoy doing things in maths that I haven't tried before.	○	○	○	○

Practice Questions

These practice questions are to help you understand how to show your answer for different types of questions.

P01. Who is holding a card with an even number on it?
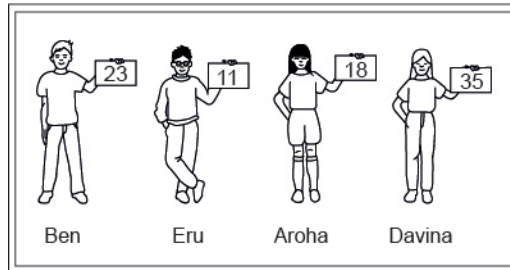
⬭　　Ben

⬭　　Eru

⬭　　Aroha

⬭　　Davina

P02. Complete this number pattern.

2, 4, ＿＿, ＿＿, 10

P03. What fraction of this circle is shaded?

☐

＿＿＿

☐
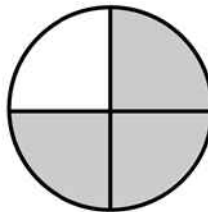
P04. Match the sentence with the correct shape.

☐   1. I have three sides

☐   2. I have 4 sides

a. ☐

b. △

c. ◯
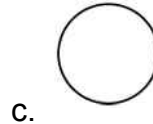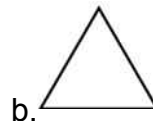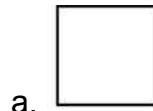
P05. Which numbers make this number sentence **TRUE**?

$$2 + ★ > 5$$

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

P06. Put the numbers 1, 2, 3, and 4 in the boxes to order these numbers from biggest (1) to smallest (4).

☐   3

☐   7

☐   2

☐   0

P07. Select whether the following statements are True or False.

	TRUE	FALSE
In the number 213, the value of 1 is ten.	◯	◯
In the number 504, the value of 5 is fifty.	◯	◯

01. Sophie has 527 seashells in her collection.
Which of these equals 527?

◯   5 + 2 + 7

◯   5 + 20 + 700

◯   500 + 20 + 7

◯   500 + 200 + 70

02. The bar graph below shows the number of each kind of bill that Kim counted.
How many $10 bills did Kim count?
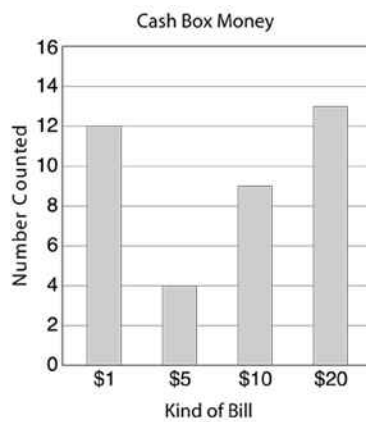
◯   4

◯   5

◯   9

◯   11

03. The city Elizabeth lives in has a population of 320 564.
Which of the following shows 320 564 in words?

◯   Three hundred and twenty thousand five hundred and sixty-four

◯   Three hundred and twenty-five thousand and sixty-four

◯   Three hundred and two thousand five hundred and sixty-four

◯   Three hundred and two thousand six hundred and fifty-four

04. What is the value of the five in five hundred and twenty-six?

- ◯ 5
- ◯ 50
- ◯ 500
- ◯ 5000

05. Jonah conducted a survey of vehicles going past his school one Friday morning between 8:30 am and 9:00 am.
This survey tells us that between 8:30 am and 9:00 am

Cars	⫴⫴ ⫴⫴ ⫴⫴ I
Buses	III
Vans	⫴⫴
Trucks	⫴⫴ I
Motor bikes	I

- ◯ cars are the slowest form of transport.
- ◯ fewer cars use the road than any other vehicles.
- ◯ cars are more reliable than trucks for deliveries.
- ◯ cars are the most common form of transport.

06. What fraction of the group of stickers is apple stickers?

- ◯ $\frac{3}{5}$
- ◯ $\frac{5}{3}$
- ◯ $\frac{3}{8}$
- ◯ $\frac{8}{3}$
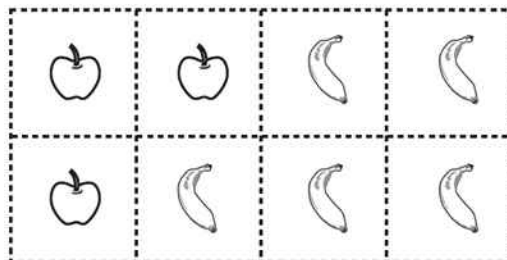
07. Which of these is equal to 8000 + 800 + 8?

○ 8088

○ 8808

○ 8880

○ 8888

08. Mr Brown bought 6 towels. All the towels were the same price. The total cost was $84. How much money did each towel cost?

○ $11

○ $14

○ $78

○ $504

09. A number has nine ones, six tens, and eight hundreds.
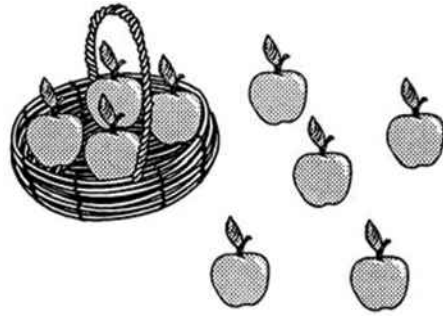What is the number?

○ 869

○ 896

○ 968

○ 986

10. What is the value of the 2 in 652 814?

○ 200

○ 2000

○ 20 000

○ 200 000

11. What fraction of the apples is in the basket?

- $\frac{4}{9}$
- $\frac{5}{9}$
- $\frac{4}{5}$
- $\frac{5}{4}$

Use the following information to answer question12..

The table below shows the number of visitors to Bent's Fort from March through September.

Visitors to Bent's Fort

Month	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.
Number of Visitors (rounded to nearest hundred)	1 600	3 200	4 100	4 300	6 100	3 300	2 400

12. According to the months shown, what were the three **MOST** popular months to visit Bent's Fort?

1) _____

2) _____

3) _____

13. Matt bought the items shown below at the school store. The prices shown include GST.

What was the total cost of these four items?

Eraser
79¢

$9.62

$3.45

$2.18
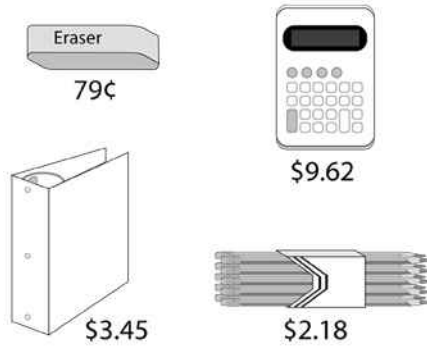
○ $14.84

○ $15.04

○ $16.04

○ $23.15

14. Dana's Year 6 class used a spinner with 4 equal sections like the one shown below for an experiment.

The students are designing a new spinner with 8 equal sections. For their new spinner, the probability of the arrow landing on Green must be the same as it is for the first spinner.

What is the total number of sections that must be marked Green on the new spinner?

Green   Yellow

Blue   Red
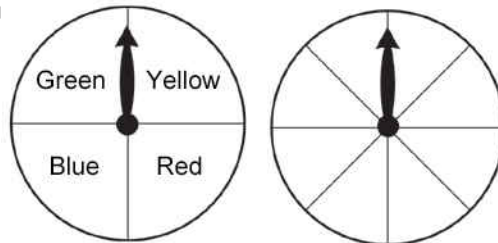
○   1

○   2

○   4

○   8

15. Adele used a rule to complete the Input-Output table shown below. Which of the following rules did Adele use?

Input	1	3	5	7
Output	5	15	25	35

○ Multiply the input by 5

○ Divide the input by 5

○ Add 4 to the input

○ Subtract 4 from the input

16. Which polygon shown below has only one line of symmetry?
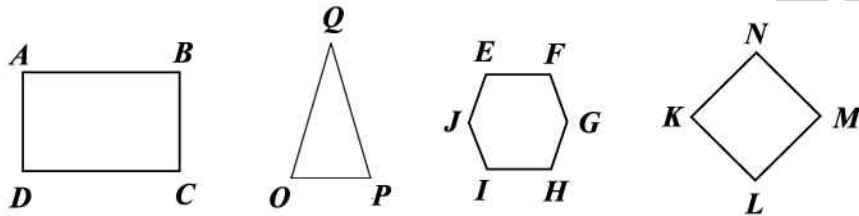
○ Rectangle *ABCD*

○ Hexagon *EFGHIJ*

○ Square *KLMN*

○ Triangle *OPQ*

17. Mia has the following cards in a bag.
Mia takes out one card without looking.
Which kind of card is she **MOST** likely to get?

$$\boxed{2} \quad \boxed{3} \quad \boxed{7}$$

$$\boxed{10} \quad \boxed{8} \quad \boxed{4}$$

- ⬭   A card with a number less than 4
- ⬭   A card with a number greater than 9
- ⬭   A card with an odd number
- ⬭   A card with an even number

18. Which drawing shows three times five?

- ⬭
- ⬭
- ⬭
- ⬭

19. Which problem can be solved using the number sentence in the box?

$$2 \times 25 = \bigstar$$

◯ Janice has 2 boxes of seashells. There are 25 shells in each box.
How many shells does Janice have?

◯ A pet shop had 25 goldfish. Someone bought 2 goldfish.
How many were left?

◯ There were 25 children in the pool. 2 more children got in the pool.
How many children were now in the pool?

◯ Garth filled 2 baskets with eggs. He used a total of 25 eggs.
How many eggs did he put in each basket?

Use the following information to answer questions 20 to 22.

A class was asked to insert the correct symbol (=, < or >) in the equations below to make them correct.
Select those that are TRUE and those that are FALSE.

20.

	TRUE	FALSE
$6 \div 2 = 6 \times \frac{1}{2}$	◯	◯

21.

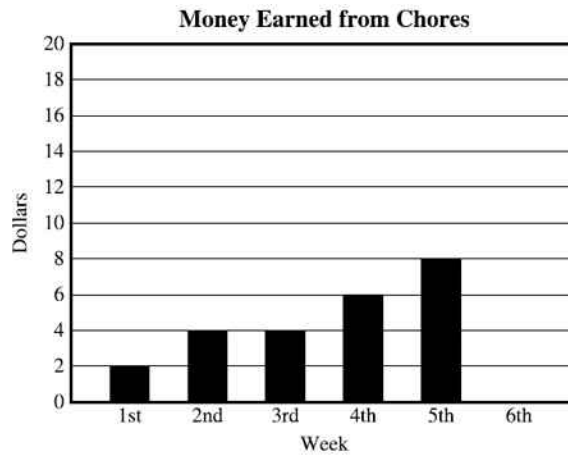|	TRUE	FALSE
$7 \times 3 < 20$	◯	◯

22.

	TRUE	FALSE
$8 - 4 + 2 > 4 \div 1$	◯	◯

End of Section

23. Darrell graphed the money he has earned for the past five weeks.
If this pattern continues, what would be a reasonable prediction of his earnings for the sixth week?

Money Earned from Chores

◯   Over $20

◯   Between $14 and $18

◯   Between $12 and $14

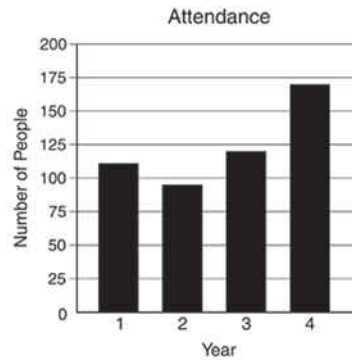◯   Between $8 and $10

24. Look at the three triangles.
Which of the following shapes (***NOT*** drawn to scale) can be made from three triangles like these?

◯

◯

◯

◯

25. The graph below shows the number of people attending the talent show on the last four years.
Which is a **TRUE** statement about this graph?

- The attendance increased two years in a row.
- The attendance in Year 4 doubled the attendance in Year 1.
- The attendance decreased every year.
- The attendance increased every year.

26. A certain map uses a scale of 1 centimetre equals 25 kilometres.
How many kilometres are represented by 5 centimetres on this map?

- 5
- 25
- 50
- 125

27. By how much would 217 be increased if the digit 1 were replaced by a digit 5?

- 4
- 40
- 44
- 400

28. The total cost for Patsy to attend 9 days of arts and crafts camp was $306. The cost for each day of camp is the same.

What was the cost for each day of arts and crafts camp?

$\bigcirc$ $27

$\bigcirc$ $31

$\bigcirc$ $34

$\bigcirc$ $42

29. Maxine runs a bakery. This is a list of the number of special requests she received each day in a two-week period.
Which of the following stem-and-leaf plots shows this same information?

16	29	28	15	22	25
34	48	17	40	48	27

○

Stem	Leaf
1	3
2	5
3	1
4	3

○

Stem	Leaf
1	5, 6, 7
2	2, 5, 7, 8, 9
3	4
4	0, 8, 8

○

Stem	Leaf
1	5, 6, 7
2	2, 5, 7, 8, 8, 9
3	4
4	0, 8

○

| Stem	Leaf
1	5, 6, 7
2	2, 5, 7, 8, 9
3	4
4	8, 8

30. Anthony can run at the rate (in metres per minute) shown in the graph below.
Which of the following **BEST** describes Anthony's rate of speed?

Anthony's Rate of Speed
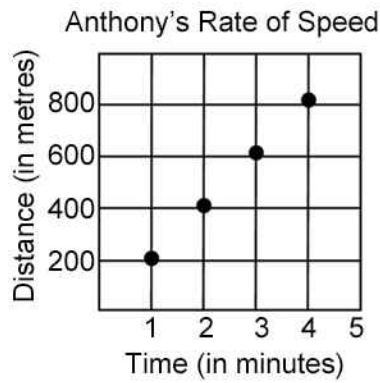
- ⬭ 800 metres per minute
- ⬭ 600 metres per minute
- ⬭ 400 metres per minute
- ⬭ 200 metres per minute

31. Gil has these model cars on a shelf.
If he takes 1 car off the shelf without looking, what is the probability that it will be white?
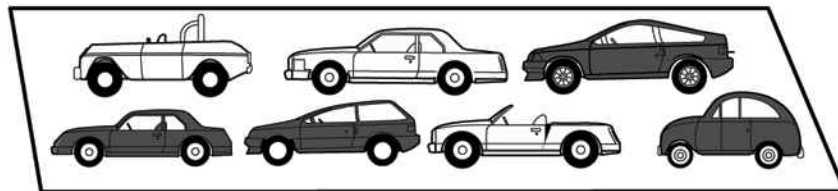
- ⬭ $\frac{1}{3}$
- ⬭ $\frac{3}{4}$
- ⬭ $\frac{1}{7}$
- ⬭ $\frac{3}{7}$

32. Every hour, a company makes 8400 paper plates and puts them in packages of 15 plates each.
How many packages are made in one hour?

$\bigcirc$ 560

$\bigcirc$ 8385

$\bigcirc$ 17 857

$\bigcirc$ 126 000

33. Tran and Rajesh completed a class survey on favourite fizzy drinks.
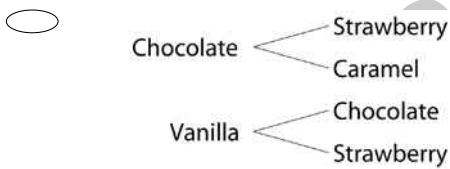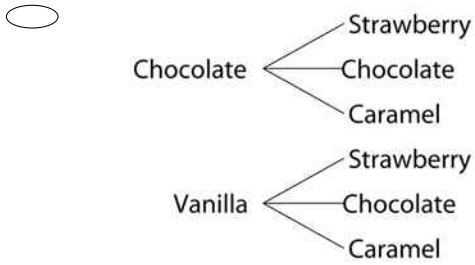The results were recorded in this table.
The survey shows us that

FAVOURITE DRINK	BOYS	GIRLS
Supa Kola	4	1
Top Pop	4	4
Dewy Mist	5	2
Lemonade	2	1
Don't like fizzy drink	1	3

$\bigcirc$ more girls than boys drink fizzy drink.

$\bigcirc$ Dewy Mist is the most popular drink.

$\bigcirc$ everybody likes fizzy drink.

$\bigcirc$ lemonade is the least popular fizzy drink.

34. An ice cream parlour makes sundaes with chocolate or vanilla ice cream and strawberry, chocolate, or caramel topping.

Which tree diagram shows all possible combinations of sundaes with one flavour of ice cream and one topping?

○
```
                        Strawberry
        Chocolate  <    Chocolate
                        Caramel

                        Strawberry
        Vanilla    <    Chocolate
                        Caramel
```

○
```
        Chocolate  <    Chocolate
                        Strawberry

        Vanilla    <    Chocolate
                        Caramel
```

○
```
                        Strawberry
        Chocolate  <    Chocolate
                        Chocolate

                        Strawberry
        Vanilla    <    Caramel
                        Caramel
```
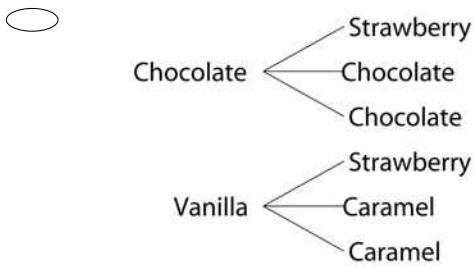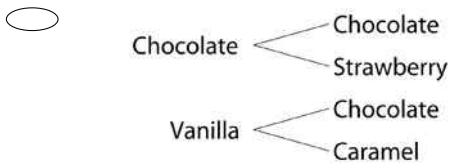
○
```
        Chocolate  <    Strawberry
                        Caramel

        Vanilla    <    Chocolate
                        Strawberry
```

35. In a fruit bowl there were 5 bananas, 6 apples, 4 oranges and 8 plums. Joanna wants a piece of fruit. She doesn't care what kind she gets.

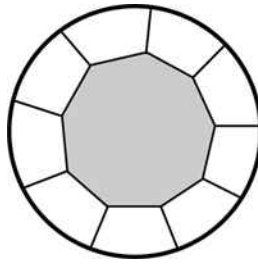What chance does she have of picking an orange?

- Poor
- Good
- Certain
- Even

36. Which of the following numbers, when rounded to the nearest thousand, becomes 27 000?

- 26 099
- 26 490
- 27 381
- 27 550
- 27 640

37. Look at the design below.
Which term identifies the shaded part in the centre of the design?

- ○ Pentagon
- ○ Heptagon
- ○ Nonagon
- ○ Decagon

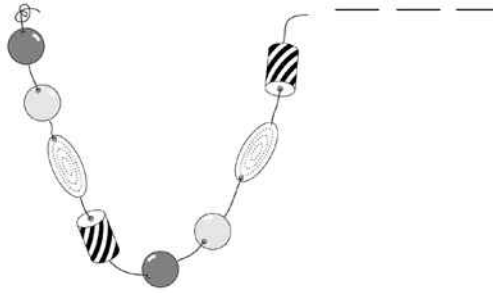**38.** Feleti cleans houses and uses the rule below to work out how much to charge.
Cost ($) = 20 x (number of hours worked) + 10
He spent 3 hours cleaning a house.
How much should he charge?

- ○ $70
- ○ $60
- ○ $50
- ○ $30

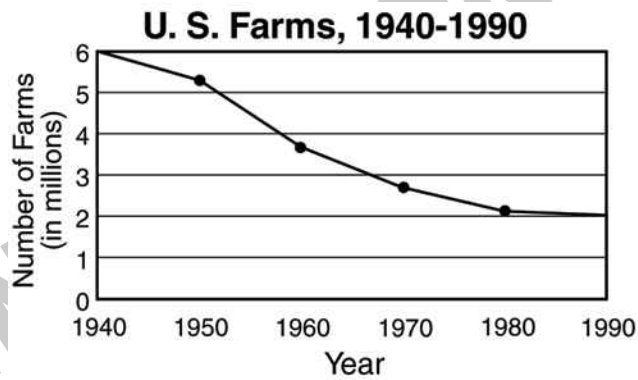**39.** Elsa is using a pattern to string the beads shown below.
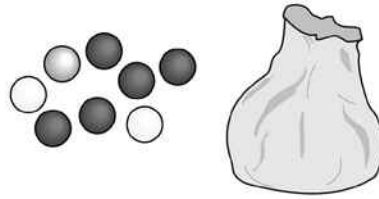If the pattern continues, what will the 11th bead look like?

○

○

○

○

40. According to the graph, which was *MOST* likely the number of farms in 1955?

U. S. Farms, 1940-1990

○   5 000 000

○   4 500 000

○   4 000 000

○   3 750 000

41. Jill put the marbles shown below into a bag and shook the bag.
Which of the following questions about the marbles could you use probability to solve?

○ How many marbles did Jill put in the bag altogether?

○ If Bob picks 1 marble from the bag without looking, what colour will it most likely be?

○ How many more black marbles than white marbles did Jill put in the bag?

○ If Andy takes 1 marble from the bag, how many marbles will be left in the bag?

42. Marta used a rule to combine the numbers in column A and column B to get the number in column C.
Which of the following was **MOST** likely the rule Marta used?

A	B	→	C
14	2	→	7
20	4	→	5
36	4	→	9
24	3	→	8
19	3	→	

○ Add the number in column A to the number next to it in column B.

○ Subtract the number in column B from the number next to it in column A.

○ Multiply the number in column A times the number next to it in column B.

○ Divide the number in column A by the number next to it in column B.

43. The spinner below is used in a game. All the spaces on the spinner are the same size. Which of the following statements about the spinner is **TRUE**?
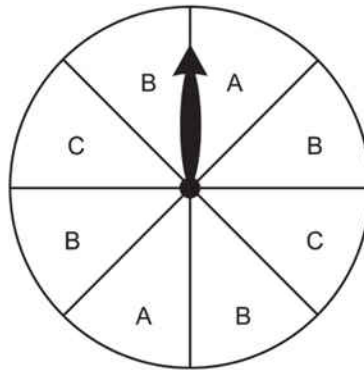
○ The arrow has an equal chance of stopping on a space marked A, B, or C.

○ The arrow has no chance of stopping on a space marked A.

○ The arrow is most likely to stop on a space marked B.

○ The arrow is least likely to stop on a space marked C.

44. Reggie compared the prices of two radios. The table below shows the prices. How much more does Brand B cost than Brand A?

Cost of Radios

Brand	Cost
A	$31.47
B	$34.71

○ $3.24

○ $3.26

○ $3.34

○ $3.36

45. Marta has a garden. Every week more flowers grow.
One flower grows during week 1. Three flowers grow during week 2. The pattern continues, as shown in the table below.
How many flowers grow during week 9?

WEEK	FLOWERS
1	1
2	3
3	6
4	10
5	15

- ⬭ 37
- ⬭ 40
- ⬭ 45
- ⬭ 56

46. Gloria's diving scores from a recent competition are represented in the stem and leaf plot shown below. In this plot, 3 | 4 would be read at 3.4.
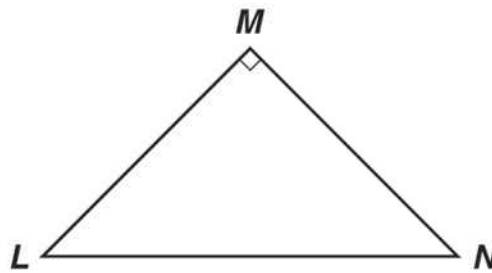What was her lowest score for this competition?

```
5│2  5
6│1
7│7
8│0  2
```

- ⬭ 0.02
- ⬭ 1.0
- ⬭ 2.5
- ⬭ 5.2
- ⬭ 8.0

47. In Jean's class there are twice as many boys as girls.
If there are 10 girls in the class, how many boys and girls are there in the class?

- ◯ 15
- ◯ 20
- ◯ 25
- ◯ 30

48. Triangle *LMN* is a right angle triangle, and angles *L* and *N* are equal.
What is the measure of angle *L*?

- ◯ 25º
- ◯ 45º
- ◯ 70º
- ◯ 90º

49. What is the value of the 6 in the following number?

3 642 801 _____

50. At the school athletics carnival, six students made the final of the high jump competition. The table below shows the results.
Leati says she came first. Katene disagrees, she says she came first.

Name	Mary	Harriet	Pita	Katene	Sally	Leati
Height	1.036m	1.207m	1.306m	1.35m	1.3m	1.342m

Decide who came first and explain your answer.

_____

_____

_____