

## Semester 2 Final Exam

Numeracy • 2008-2009

Mr. Wong

Read and sign the honor code below:

I, \_\_\_\_\_, swear on my honor that:  
Yo, \_\_\_\_\_, doy mi palabra de honor que:

- All of the work on this test is all mine. I did not copy any other student's work or ask any student for help.  
*Todo el trabajo en este examen es mío. Yo no lo copie de ningún otro estudiante o pedí ayuda de otro estudiante.*
- I did not allow any other student to look at my paper and copy my work.  
*No le permití a ningún otro estudiante ver mi examen ni copiar mi trabajo.*
- I will not have a cell phone or any electronic device anywhere on my person. This includes no cell phone or electronic device in my pockets, lap and clothing or any other area around my desk.  
*No tendré un celular disponible en mi persona o en ningún otro lugar.*
- I will not communicate with other students in any way during the two hours of this test. This means I will not talk, pass notes, whisper, make hand signals, or anything else that a teacher may interpret as communication.  
*No me comunicaré con ningún otro estudiante de ninguna manera durante estas dos horas de exámenes. Esto quiere decir que no hablaré, pasaré notas, soplaré, haré señas con mis manos o cualquier otra cosa que el/ la maestro(a) pueda interpretar como comunicación.*

I realize that if I break any of the rules my test will be taken away and I will be given a 0.  
*Yo reconozco que si no sigo estas reglas me quitarán el examen y recibiré un 0.*

\_\_\_\_\_  
Student Signature/Firma de estudiante

\_\_\_\_\_  
Date/Fecha

**You must show your work for credit!**

Numeracy  
Semester 2 Final Exam

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_

- What is the place value of the digit 1 in 4,318.6795?  
**A** hundreds  
**B** ones  
**C** thousands  
**D** tens
- What is the place value of the digit 4 in 6,012.9478?  
**A** ten-thousandths  
**B** hundredths  
**C** thousandths  
**D** tenths
- What is the place value of the digit 9 in 1,863.2479?  
**A** tenths  
**B** ten-thousandths  
**C** thousandths  
**D** hundredths
- What is the place value of the digit 9 in 5,471.9326?  
**A** tenths  
**B** thousandths  
**C** ten-thousandths  
**D** hundredths
- Which is the smallest four digit number using 3, 0, 2, and 9?  
**A** 2039  
**B** 3209  
**C** 9023  
**D** 239
- Which decimal is the smallest?  
**A** 1.02  
**B** 1.023  
**C** 1.23  
**D** 0.123
- Order the following numbers from least to greatest (smallest to largest):  
3100, 1030, 1003, 1300  
**A** 1030, 1003, 1300, 3100  
**B** 3100, 1030, 1003, 1300  
**C** 1300, 1003, 1030, 3100  
**D** 1003, 1030, 1300, 3100
- Order the following decimals from least to greatest (smallest to largest):  
4.23, 0.423, 4.023, 0.043  
**A** 0.043, 0.423, 4.23, 4.023  
**B** 0.043, 4.23, 0.423, 4.023  
**C** 0.423, 0.043, 4.023, 4.23  
**D** 0.043, 0.423, 4.023, 4.23
- Order the following decimals from least to greatest (smallest to largest):  
1.5, 1.52, 0.152, 1.502  
**A** 1.5, 0.152, 1.52, 1.502  
**B** 1.52, 0.152, 1.502, 1.5  
**C** 0.152, 1.5, 1.52, 1.502  
**D** 0.152, 1.5, 1.502, 1.52

10 Write  $\frac{23}{100}$  as a decimal.

- A 2.3
- B 0.23
- C 0.023
- D 23.1

11 Write  $\frac{5}{100}$  as a decimal.

- A 0.005
- B 5.1
- C 0.5
- D 0.05

12 Write  $\frac{47}{1000}$  as a decimal.

- A 0.47
- B 0.047
- C 4.7
- D 47.1

13 Write 0.063 as a base-10 fraction.

- A  $\frac{63}{100}$
- B  $\frac{63}{1000}$
- C  $\frac{63}{10}$
- D  $6\frac{3}{100}$

14 Write 1.23 as a base-10 fraction.

- A  $1\frac{23}{100}$
- B  $\frac{123}{1000}$
- C  $1\frac{23}{1000}$
- D  $\frac{1.23}{100}$

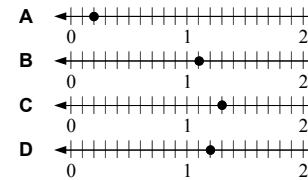
15 Write  $\frac{1}{5}$  as a decimal.

- A 0.5
- B 0.2
- C 1.5
- D 0.1

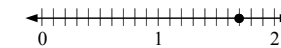
16 Write  $\frac{3}{8}$  as a decimal.

- A 0.375
- B 0.38
- C 0.385
- D 0.37

17 Plot 1.2 on the number line.



18 The following graph represents which decimal?



- A 1.6
- B 1.7
- C 1.8
- D 1.9

19 Round 34.567 to the nearest tenth.

- A 30
- B 34.5
- C 34.6
- D 34.57

20 Round 298.765 to the nearest hundredth.

- A 300
- B 298.8
- C 298.76
- D 298.77

21 Evaluate  $1.2 + 3$

- A 1.5
- B 4.2
- C 4.5
- D 1.2

22 Evaluate  $1.23 + 4.5$

- A 1.68
- B 5.73
- C 1.73
- D 5.68

**23** Evaluate  $23.423 + 2.79$

- A 26.213
- B 23.702
- C 25.113
- D 51.323

---

**24** Evaluate  $7.3 - 2$

- A 7.1
- B 5.3
- C 5.1
- D 7.3

---

**25** Evaluate  $9.23 - 2.1$

- A 9.02
- B 7.13
- C 9.13
- D 7.02

---

**26** Evaluate  $43.867 - 1.23$

- A 43.744
- B 42.537
- C 43.990
- D 42.637

**27** Evaluate  $2.1 \cdot 0.9$

- A 1.89
- B 18.9
- C 189
- D 0.189

---

**28** Evaluate  $2.13 \cdot 4.5$

- A 9.585
- B 9.575
- C 1.917
- D 19.17

---

**29** Evaluate  $0.532 \cdot 0.24$

- A 0.12768
- B 12.768
- C 3192
- D 0.03192

**30** Evaluate  $0.56 \div 8$

- A 7
- B 0.7
- C 0.07
- D 0.007

---

**31** Evaluate  $184.8 \div 28$

- A 7.5
- B 0.75
- C 6.6
- D 0.66

---

**32** Evaluate  $16.8 \div 1.4$

- A 1.2
- B 13
- C 12
- D 1.3

**33** Evaluate  $192 \div 0.16$

- A 120
- B 110
- C 1100
- D 1200

---

**34** Evaluate  $3.1415 \cdot 1000$

- A 31415.
- B 3141.5
- C 0.003145
- D 0.00031415

---

**35** Evaluate  $41.2 \div 10000$

- A 1420000
- B 14200000
- C 0.00412
- D 0.000412

36 Which of the following is **not** a correct way to write a ratio?

- A 2 to x
- B x : 9
- C x / 5
- D x = 3

37 John eats seven times every ten hours. Write this as a ratio.

- A 7 hours to 10 eats
- B 7 eats / 10 hours
- C 7 hours : 10 eats
- D 7 eats = 10 hours

38 Mr. Wong bought five books for ten dollars. Which of the following is **not** a correct way to write this as a ratio?

- A 5 books : 10 dollars
- B 5 books = 10 dollars
- C 10 dollars to 5 books
- D 5 books / 10 dollars

39 Solve the following proportion:

$$\frac{x}{3} = \frac{2}{6}$$

- A 3
- B 1
- C 6
- D 2

40 Solve the following proportion:

$$\frac{4}{6} = \frac{n}{9}$$

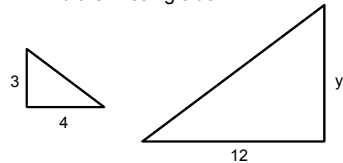
- A 6
- B 4
- C 9
- D 3

41 Solve the following proportion:

$$\frac{25}{100} = \frac{8}{n}$$

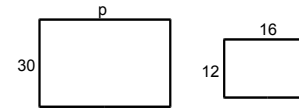
- A 24
- B 32
- C 36
- D 2

42 The following shapes are similar. Find the missing side.



- A 8
- B 4
- C 16
- D 9

43 The following shapes are similar. Find the missing side.



- A 22.5
- B 6
- C 40
- D 35

44 Write 75% as a fraction.

- A  $\frac{3}{4}$
- B  $\frac{75}{1}$
- C  $\frac{7}{5}$
- D  $\frac{100}{75}$

45 Write 125% as a fraction.

- A  $\frac{4}{5}$
- B  $1\frac{1}{4}$
- C  $\frac{125}{1}$
- D  $\frac{12}{5}$

46 Write 36% as a decimal.

- A 3.6
- B 0.36
- C 36.
- D 3600

47 Write 220% as a decimal.

- A 2.2
- B 22.0
- C 0.22
- D 22000

48 Write 0.24 as a percent.

- A 2.4%
- B 240%
- C 0.24%
- D 24%

49 Write 1.2 as a percent.

- A 12%
- B 120%
- C 1.2%
- D 0.012%

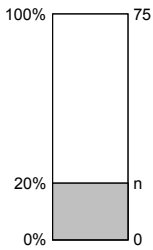
50 Write  $\frac{1}{4}$  as a percent.

- A 1.4%
- B 0.25%
- C 4%
- D 25%

51 Write  $\frac{3}{8}$  as a percent.

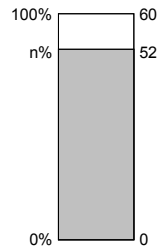
- A 37.5%
- B 0.375%
- C 3.8%
- D 38%

52 The following diagram represents which percent problem?



- A 20 is what percent of 75?
- B 75 is what percent of 20?
- C What is 20% of 75?
- D 75 is 20% of what number?

53 The following diagram represents which percent problem?



- A 52 is what percent of 60?
- B What is 52% of 60?
- C 60 is 52% of what number?
- D What is 62% of 100?

54 The following percent equation represents which percent problem?

$$30 = \frac{x}{100} \cdot 40$$

- A What is 30 percent of 40?
- B 30 is 40% of what number?
- C 30 is what percent of 40?
- D 40 is what percent of 30?

55 The following percent equation represents which percent problem?

$$24 = \frac{80}{100} \cdot x$$

- A 24 is 80% of what number?
- B What is 24% of 80?
- C 24 is what percent of 80?
- D What is 80% of 100?

56 What is 80% of 20?

- A 12
- B 16
- C 25
- D 18

57 What is 12% of 75?

- A 9
- B 66
- C 12
- D 90

58 11 is what percent of 20?

- A 5.5%
- B 55%
- C 0.55%
- D 1.81%

59 96 is what percent of 150?

- A 0.64%
- B 1.56%
- C 6.4%
- D 64%

60 120 is 15% of what number?

- A 1850
- B 800
- C 18
- D 12.5

61 32 is 40% of what number?

- A 120
- B 75
- C 80
- D 125

- 62** Last year, the number of dogs on DCP's field was 10. This year, the number of dogs rose to 18. What is the percent of increase?
- A** 8%
  - B** 80%
  - C** 44%
  - D** 55%

- 63** The amount of money in Mr. Wong's wallet decreased from \$20 to \$17. What is the percent of decrease?
- A** -3%
  - B** -15%
  - C** -12%
  - D** -85%

- 64** Boots that normally sell for \$125 are on sale for 15% off. What is the discount?
- A** \$20.50
  - B** \$18.75
  - C** \$17.50
  - D** \$19.95

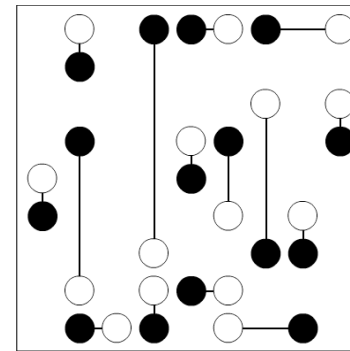
- 65** Shoes that normally sell for \$85 are on sale for 20% off. What is the discount?
- A** \$15.00
  - B** \$23.53
  - C** \$425.00
  - D** \$17.00

**Extra Credit**

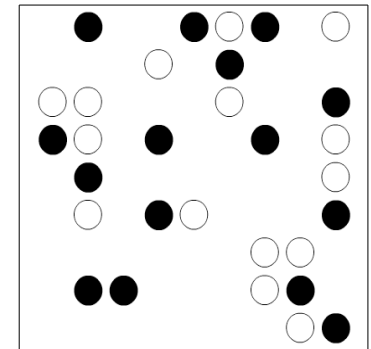
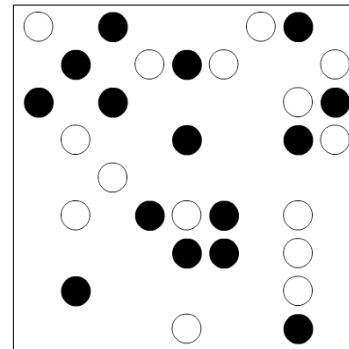
**How to Play Cidouri**

To complete a Cidouri puzzle, you must make pairs of white and black dots by connecting them with horizontal (side-to-side) or vertical (up-and-down) line. So, you cannot use diagonal lines. Each dot can only be used once, and the lines cannot cross.

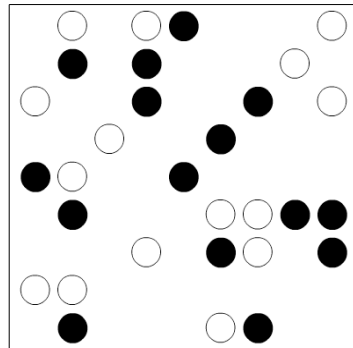
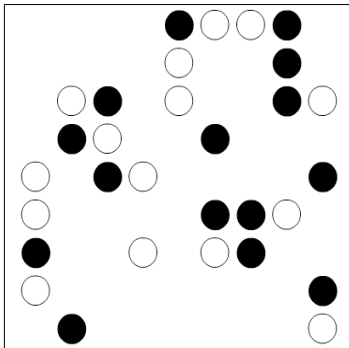
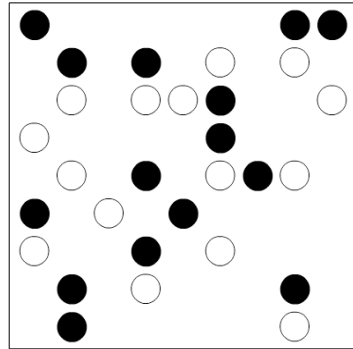
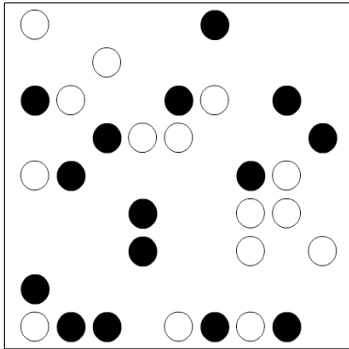
**Example of a Completed Puzzle**



**Extra Credit Puzzles**



**More Extra Credit Puzzles**



**Please rate the following statements on a scale of 1 (strongly disagree) to 5 (strongly agree).**

At the beginning of the school year, I was good at decimals and percents.	1 2 3 4 5
Currently, I am good at decimals and percents.	1 2 3 4 5
At the beginning of the school year, I liked math.	1 2 3 4 5
Currently, I like math.	1 2 3 4 5
I will have good memories when I think back about Numeracy.	1 2 3 4 5
I will have good memories when I think back about Mr. Wong.	1 2 3 4 5
I tried my best this school year in Numeracy.	1 2 3 4 5
I look forward to the rest of my time at DCP.	1 2 3 4 5

**What has Mr. Wong been doing well as a teacher? What should he keep doing?**

---



---



---

**What suggestions do you have for Mr. Wong? In what areas can he improve?**

---



---



---

**What else do you want Mr. Wong to know?**

---



---



---