



MATHS

BOOKS - PRINCETON MATHS (ENGLISH)

FUN WITH FUNDAMENTALS

Drill 1

1. Solve each of the following problems by performig the indicated operations in the

proper order.

Q. $107 + (109 - 107) = \underline{\quad}$.



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2. Solve each of the following problems by performig the indicated operations in the proper order.

Q. $(7 \times 5) + 3 = \underline{\quad}$



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3. Solve each of the following problems by performig the indicated operations in the proper order.

$$\text{Q. } 6 - 3(6 - 3) = \underline{\hspace{2cm}}$$



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4. Solve each of the following problems by performig the indicated operations in the proper order.

$$\text{Q. } 2 \times [7 - (6 \div 3)] = \underline{\hspace{2cm}}.$$





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5. Solve each of the following problems by performing the indicated operations in the proper order.

Q. $10 - (9 - 8 - 6) = \underline{\quad}$.



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Drill 2

1. Rewrite problem by either distributings or factoring and then solve. Question 3, 4, and 5 have no numbers in them, therefore, they can't be solved with a calculator.

Q. $(6 \times 57) + (6 \times 13) = \underline{\quad}$



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2. Rewrite problem by either distributings or factoring and then solve. Question 3, 4, and 5 have no numbers in them, therefore, they can't

be solved with a calculator.

$$Q. 51(48) + 51(50) + 51(52) = \underline{\hspace{2cm}}$$



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3. Rewrite problem by either distributings or factoring and then solve. Question 3, 4, and 5 have no numbers in them, therefore, they can't be solved with a calculator.

$$Q. a(b + c - d) = \underline{\hspace{2cm}}$$



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4. Rewrite problem by either distributings or factoring and then solve. Question 3, 4, and 5 have no numbers in them, therefore, they can't be solved with a calculator.

Q. $xy - xz = \underline{\quad}$



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5. Rewrite problem by either distributings or factoring and then solve. Question 3, 4, and 5 have no numbers in them, therefore, they can't

be solved with a calculator.

Q. $abc - xyz = \underline{\quad}$.



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Drill 3

1. Try converting the following mixed numbers to fractions.

Q. $8\frac{1}{3}$



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2. Try converting the following mixed numbers to fractions.

Q. $2\frac{3}{7}$



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3. Try converting the following mixed numbers to fractions.

Q. $5\frac{4}{9}$



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4. Try converting the following mixed numbers to fractions.

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



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5. Try converting the following mixed numbers to fractions.

Q. $6\frac{2}{3}$



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Drill 4

1. Work these problems with the techniques you've read about in this chapter so far. Then check your answer by solving them with your calculator. If you have any problem go back and review the information just outlined.

Q. Reduce $\frac{18}{6}$. _____



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2. Work these problems with the techniques you've read about in this chapter so far. Then check your answer by solving them with your calculator. If you have any problem go back and review the information just outlined.

Q. Convert $6\frac{1}{5}$ to fraction. _____



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3. Work these problems with the techniques you've read about in this chapter so far. Then

check your answer by solving them with your calculator. If you have any problem go back and review the information just outlined.

Q. $2\frac{1}{3} - 3\frac{3}{5} = \text{-----}$



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4. Work these problems with the techniques you've read about in this chapter so far. Then check your answer by solving them with your calculator. If you have any problem go back

and review the information just outlined.

$$\text{Q. } \frac{3}{4} \div \frac{6}{25} = \text{-----}$$



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5. Work these problems with the techniques you've read about in this chapter so far. Then check your answer by solving them with your calculator. If you have any problem go back and review the information just outlined.

$$\text{Q. } \frac{5}{18} \times \frac{6}{25} = \text{-----}$$



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6. Work these problems with the techniques you've read about in this chapter so far. Then check your answer by solving them with your calculator. If you have any problem go back and review the information just outlined.

Q. $\frac{\frac{2}{5}}{5} = \text{-----}$



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7. Work these problems with the techniques you've read about in this chapter so far. Then check your answer by solving them with your calculator. If you have any problem go back and review the information just outlined.

Q. $\frac{\frac{1}{3}}{\frac{3}{4}} = \text{-----}$



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Drill 5

1. Calculate each of the answers to following questions on paper with your pencil, rounding any awkward numbers to make the math easier to handle. Then check your answers with your calculator.

Q. $0.43 \times 0.87 = _ _$



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2. Calculate each of the answers to following questions on paper with your pencil, rounding

any awkward numbers to make the math easier to handle. Then check your answers with your calculator.

Q. $\frac{43 + 0.731}{0.03} = \text{-----}$



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3. Calculate each of the answers to following questions on paper with your pencil, rounding any awkward numbers to make the math easier to handle. Then check your answers

with your calculator.

Q. $3.72 \div 0.02 =$ _____



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4. Calculate each of the answers to following questions on paper with your pencil, rounding any awkward numbers to make the math easier to handle. Then check your answers with your calculator.

Q. $0.71 - 3.6 =$ _____



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Example

1. For the equation $\frac{a^x}{a^y} = a^{10}$ and $(a^y)^3 = a^x$, if $a > 1$, what is the value of x ?

- A. 5
- B. 10
- C. 15
- D. 20

Answer: C



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2. If $x > 0$, which of the following is equivalent to $\sqrt{x^3}$?

I. $x + x^{\frac{1}{2}}$

II. $\left(x^{\frac{1}{2}}\right)^3$

III. $\left(x^2\right)\left(x^{\frac{1}{2}}\right)$

A. None

B. I and II only

C. II and III only

D. I, II, and III

Answer: C



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3. A certain store sells televisions ranging in price for \$500 to \$5,000 in increment of \$500.

The graph above shows the total number of television sold at each price durind the last 12 months. Approximately how much more revenue did the store collect from the

television it sold price at \$3,500 then it did
from the television it sold price at \$1,000?

A. \$175,000

B. 250,000

C. 275,000

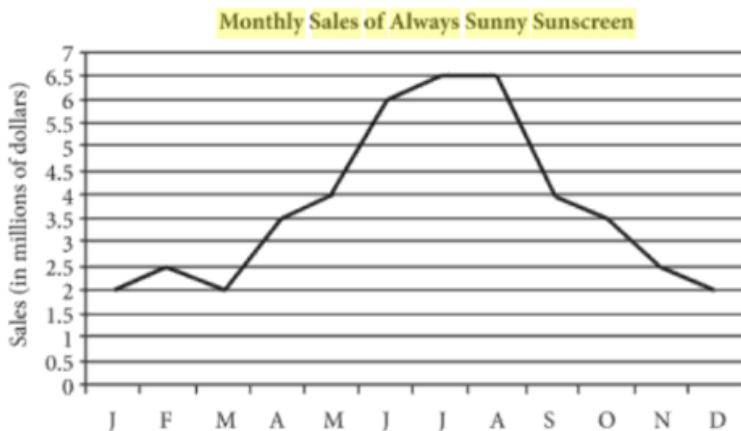
D. 350,000

Answer: C



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4. The forecasted monthly sales of always sunny sunscreen are presented in the figure above. For which period are the forecasted monthly sales figures strictly decreasing and then strictly increasing?



A. January to March

B. February to April

C. June to August

D. September to November

Answer: B



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5. The population of five countries are in the graph above. If population density is defined as $(\text{population})/(\text{area})$, and the area of paraguay is 400,000 sq km , what is the

population density of paraguay , In the people
per sq km?

A. 0.08

B. 0.8

C. 1.25

D. 12.5

Answer: D



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6. Computer production at a factory occurs during two shifts, as shown in the chart above. If computers are produced only during the morning and afternoon shifts, on which of the following pairs of days is the greatest total number computers produced?

A. Monday and Thursday

B. Tuesday and Thursday

C. Wednesday and Friday

D. Tuesday and Friday

Answer: C



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Fundamental Drill 1 No Calculator Section

1. Which of the following represents the statement "the sum of the squares of x and y is equal to the square root of the difference x and y "?

A. $x^2 + y^2 = \sqrt{x - y}$

B. $x^2 - y^2 = \sqrt{x + y}$

C. $(x + y)^2 = \sqrt{x} - \sqrt{y}$

D. $\sqrt{x + y} = \sqrt{x - y}^2$

Answer: A



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2. If $a = -2$, then $a + a^2 - a^3 + a^4 - a^5 =$

A. -22

B. -18

C. 32

D. 58

Answer: D



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3. If $9^{-2} = \left(\frac{1}{3}\right)^x$, what is the value of x ?

A. 1

B. 2

C. 4

D. 6

Answer: C



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4. $\frac{1}{8} + \frac{1}{10} = \frac{a}{b}$

In the equation above, if a and b are positive integers and $\frac{a}{b}$ is in its simplest reduced form, what is the value of a ?

A. 2

B. 9

C. 18

D. 40

Answer: B



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Fundamental Drill 2 Calculator Permitted Section

1. If 7 times a number is 84, what 4 times the number?

A. 16

B. 28

C. 48

D. 56

Answer: C



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2. If $3x = 12$, what is the value of $\frac{24}{x}$?

A. $\frac{1}{6}$

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

C. 4

D. 6

Answer: D



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3. Which of the following graphs shows a strong positive association between x and y ?

A. 

B. 

C. 

D. 

Answer: D



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4. If $\sqrt{x} + 22 = 18$, what is the value of x ?

A. 4

B. 16

C. 32

D. 256

Answer: B



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5. If each number in the following sum were increased by t , the new would be 4.22. What is the value of t ?

A. 0.24

B. 0.29

C. 0.33

D. 0.37

Answer: D



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6. If $4^x \cdot n^2 = 4^{x+1} \cdot n$ and x and n are both positive integers, what is the value of n ?

A. 2

B. 4

C. 6

D. 8

Answer: B



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