Test Yourself Chapter 11 Equations

Name:

All Multiple Choice

- 1 The equation which best represents the statement 'I am thinking of a number when I add 15 the result is 32' is:
 - A n + 32 = 15
 - B n+15=32
 - C 15n = 32
 - $D \qquad \frac{15}{n} = 32$
- 2 The equation which best represents the statement 'I am thinking of a number if I add 7 and then double it the result is 11' is:
 - A 2n+7=11
 - B 2+7+n=11
 - C 11 + 2n = 7
 - D 2(n+7) = 11
- 3 The solution to the equation k-8=18 is:
 - A k=8
 - B k = 10
 - C k=20
 - D k = 26
- 4 The solution to the equation 8a = 32 is:
 - A a=4
 - B a=8
 - C = a = 24
 - D a = 40
- 5 The output number for the following flow chart is:

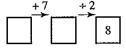
÷ 3	4	+ 16	
9			

- A 3
- B 13
- C 16
- D 19

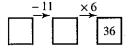
6 The output number for the following flow chart is:

	×5	- 23	
13			

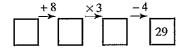
- A 39
- B 41
- C 42
- D 65
- 7 The input number for the following flow chart must be:



- A 3
- B 5
- C 7
- D 9
- 8 The input number for the following flow chart must be:

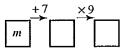


- A 9
- B 11
- C 13
- D 17
- 9 The input number for the following flow chart must be:

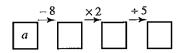


- A 2
- B 3
- C 4
- D 5

10 The expression which is built up by the following flow chart is:



- A 9m+7
- B $\frac{m+7}{9}$
- $C = \frac{9m}{7}$
- D 9(m+7)
- 11 The expression which is built up by the following flow chart is:



- A $\frac{2a-8}{5}$
- B $\frac{2(a-8)}{5}$
- $C = \frac{a-8}{5}$
- D $2a \frac{8}{5}$
- 12 The inverse operation of $\times 15$ is:
 - A ÷15
 - B ×1.5
 - C +15
 - D -15
- The solution to the equation 8p + 3 = 11p 12 is:
 - A p=3
 - B p=4
 - C p=5
 - D p=6

14 The solution to the equation

$$4(n+2) = \frac{11n-5}{2}$$
 is:

- A n=5
- B n=6
- C n = 7
- D n=8
- The two numbers which have a sum of 19 and a product of 84 are:
 - A 7 and 12
 - B 6 and 13
 - C 5 and 14
 - D 4 and 15
- The two numbers which have a sum of 124 and a product of 3723 are:
 - A 19 and 105
 - B 36 and 88
 - C 47 and 77
 - D 51 and 73
- 17 Wallace earns one third of the money that Charlotte earns. If Charlotte earns *y* dollars, then Wallace must earn:
 - A $\frac{y}{3}$
 - B 3y
 - C y+3
 - D $\frac{3}{y}$
- Lachie is 15 years older than Susan. If Susan is *m* years old, then the total of their ages is:
 - A m + 15
 - B m+m
 - C 2(m+15)
 - D 2m + 15

- 19 The product of two numbers is 45. If one of the numbers is *d*, then the other number is:
 - A 45-d
 - B 45 + d
 - C $\frac{d}{45}$
 - D $\frac{45}{d}$
- 20 If *a* is the smaller of two consecutive odd numbers, then the sum of the two numbers is:
 - A 2a
 - B 2a+2
 - C 2(a+2)
 - D 2a-2

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The solution to the equation

C

 $4(n+2) = \frac{1 \ln -5}{2}$ is:

n = 7

n = 8

n=6

n = 5

when I add 15 the result is 32' is: statement 'I am thinking of a number --The equation which best represents the

n + 32 = 15n+15=32

U $\frac{15}{2} = 32$ 15n = 32

if I add 7 and then double it the result is statement 'I am thinking of a number — The equation which best represents the d

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₩≯ 2+7+n=112n+7=11

2(n+7)=1111 + 2n = 7

B ≽ iš The solution to the equation k-8=18U

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ДO k=20 k=26k=10

The solution to the equation 8a = 32 is:

a = 8 *a* :: 4

a=40a=24

U

The output number for the following

U

flow chart is:

UC m >

13 16 19

The output number for the following flow chart is: a

flow chart must be:

DOB> 9753

The input number for the following flow chart must be:

U

The input number for the following

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flow chart must be:

G C st > 0 4 W

The input number for the following Ħ

The inverse operation of ×15 is:

12

The solution to the equation

13

p = 3

p = 4

9m+7 m+79

7 m

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The two numbers which have a sum of

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19 and a product of 84 are:

following flow chart is: The expression which is built up by the

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 $\begin{array}{c}
 2a - 8 \\
 \hline
 5 \\
 2(a - 8) \\
 \hline
 5 \\
 \hline
 a - 8 \\
 \hline
 5
\end{array}$

ひ C & > *15 *15

8p+3=11p-12 is:

a

18

p=5p=6

The expression which is built up by the following flow chart is: U

5 The two numbers which have a sum of 124 and a product of 3723 are: 7 and 12 6 and 13 5 and 14 4 and 15

A

Wallace earns one third of the money 19 and 105 36 and 88 47 and 77 51 and 73

17 y dollars, then Wallace must earn: that Charlotte earns. If Charlotte earns

Susan is m years old, then the total of Lachie is 15 years older than Susan. If \forall

their ages is:

m + 15

m+m

2(m+15)

2m + 15

Д

The product of two numbers is 45. If one of the numbers is *d*, then the other number is:

19

45 - *a*45 + *a*45 + *a*45 + *a a*

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If a is the smaller of two consecutive odd numbers, then the sum of the two numbers is:

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2a + 2 2(a+2) 2(a+2) 2a-2