C. $\frac{3\pi}{5}$

D. $\frac{\sqrt{3\pi}}{\sqrt{5}}$

$B = \frac{3}{5}\pi s^2$

$5k\pi^2 = 3\pi s^2$

$\frac{x^2}{s^2} = \frac{3}{5} \rightarrow \frac{x}{s} = \frac{\sqrt{3}}{\sqrt{5}}$

99. What is the greatest value of x that is a solution of the following equation?

$|x-5| + 10 = 15$

$|x-5| + 10 = 15$

$|x-5| = 5$

$|10-5| = 5$

A. 0
B. 5
C. 10
D. 20
E. 30

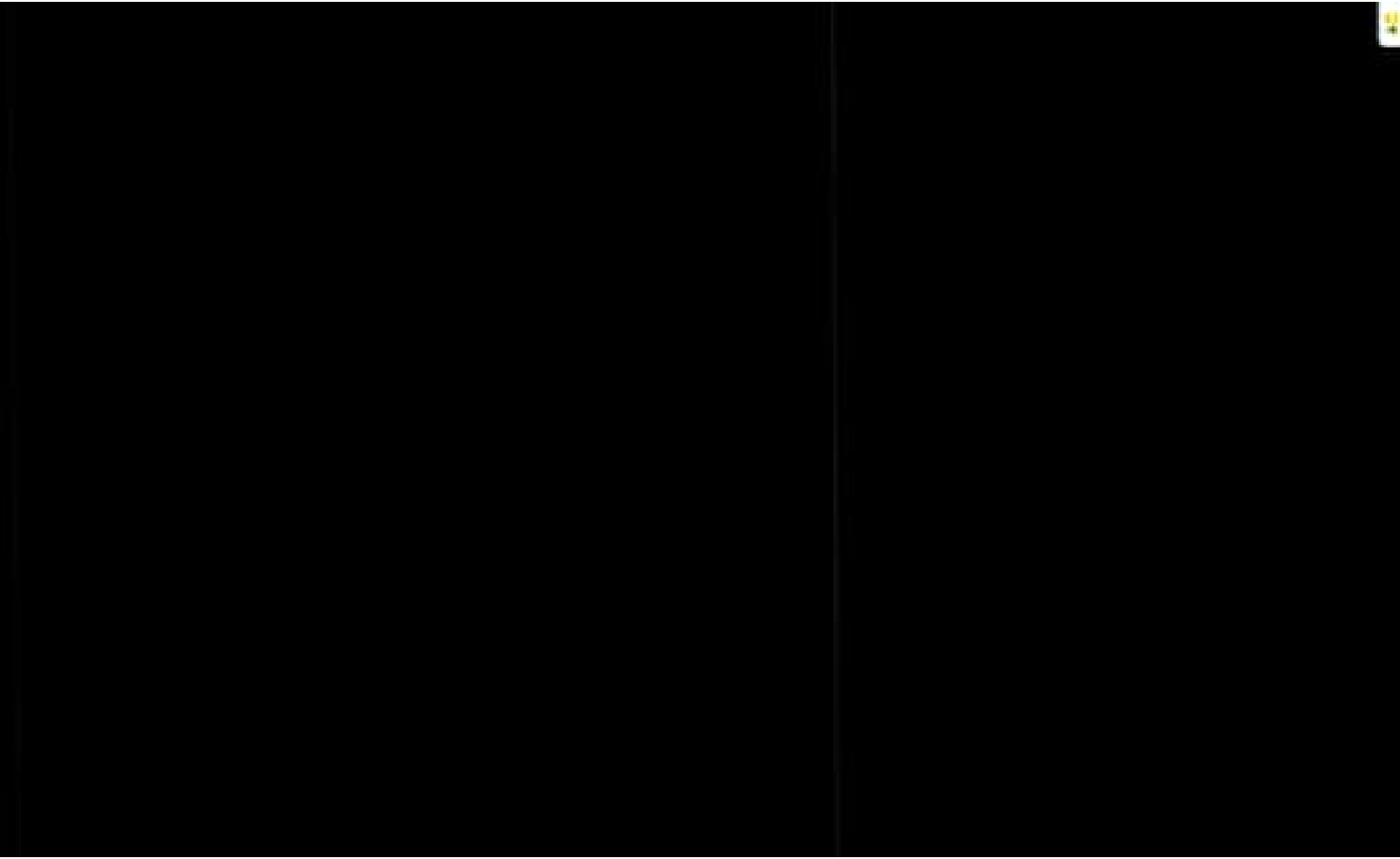
100. What percent of 25 is 5?

$\frac{x}{100} \times 25 = 5$

$\frac{25x}{100} = 5$

$25x = 500 \Rightarrow x = 20$

A. 10%
B. 20%
C. 30%
D. 35%
E. 40%



C. $\frac{3\pi}{5}$

D. $\frac{\sqrt{3\pi}}{\sqrt{5}}$

$B = \frac{3}{5}\pi s^2$

$5k \cdot r^2 = 3\pi \cdot 5^2$

$\frac{r^2}{5^2} = \frac{3}{5} \rightarrow \frac{r}{5} = \frac{\sqrt{3}}{\sqrt{5}}$

99. What is the greatest value of x that is a solution of the following equation?

$|x-5| + 10 = 15$

$|x-5| + 10 = 15$

$|x-5| = 5$

$|0-5| = 5$

A. 0
B. 5
C. 10
D. 20
E. 30

100. What percent of 25 is 5?

$\frac{x}{100} \times 25 = 5$

$\frac{25x}{100} = 5$

$25x = 500$

A. 10%
B. 20%
C. 30%
D. 35%
E. 40%

98. Let A = total area of five circles of radius 'r', and let B = total area of three circles of radius 's'. If A = B, then r/s=?

A. 3/5

B. $\frac{\sqrt{3}}{\sqrt{5}}$

C. $\frac{3\pi}{5}$

D. $\frac{\sqrt{3\pi}}{\sqrt{5}}$

$A = 5\pi r^2$

$B = 3\pi s^2$

$5\pi r^2 = 3\pi s^2$

$\frac{r^2}{s^2} = \frac{3}{5} = \frac{\pi}{5} = \frac{\sqrt{\pi}}{\sqrt{5}}$

99. What is the greatest value of x that is a solution of the following equation?

$|x-5| + 10 = 15$

A. 0
B. 5
C. 10
D. 20
E. 30

100. What percent of 25 is 5?

A. 10%
B. 20%
C. 30%
D. 35%
E. 40%

A. 72
B. 63
C. 54
D. 36
E. 46

86. A two-digit number contains the smaller of two digits in the unit's place. The product of the digits is 24 and the difference between the digits is 5. Find the number.

A. 46
B. 38
C. 83
D. 72
E. 64

87. Simplify $\sqrt[3]{64} = ?$

A. 4
B. 64
C. 8
D. 32
E. 2

A. 72
B. 63
C. 54
D. 36
E. 46

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87. Simplify $\sqrt[3]{64} = ?$

A. 4
B. 64
C. 8
D. 32
E. 2

at 4 km/hr. Find the [illegible] distance.

A. 4.2 km/hr
B. 4.4 km/hr
C. 4.5 km/hr
D. 4 km/hr
E. 3.7 km/h

84. (86 - 28 + 39) - (800% of 2) = M^2. Find the value of M?

A. 7
B. 9
C. 11
D. 101
E. 1.01

85. A mother tells her daughter, 'I was half your present age when you were born.' If the mother is 18 years older than her daughter, what is the present age of the mother?

A. 72
B. 63
C. 54
D. 36
E. 46

86. A two-digit number contains the smaller of two digits in the unit's place. The product of the digits is 24 and the difference between the digits is 5. Find the number.

A. 46
B. [illegible]

at 4 km/hr. Find the
distance.

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E. 46

86. A two-digit number contains the smaller of two digits in the unit's place. The product of the digits is 24 and the difference between the digits is 5. Find the number.

A. 46
B. 38

83. A person covers 12 km at 3 km/hr, 18 km at 9 km/hr and 24 km at 4 km/hr. Find the average speed in covering the whole distance.

A. 4.2 km/hr
B. 4.4 km/hr
C. 4.5 km/hr
D. 4 km/hr
E. 3.7 km/h

Average speed = Total distance / Total time
= 54 / 12 = 4.5 km/hr

84. (86 - 28 + 39) - (800% of 2) = M^2. Find the value of M?

A. 7
B. 9
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A. 72
B. 63
C. 54
D. 36
E. 46

6. A two-digit number contains the smaller of two digits in the

24. DESPICABLE:

A. admirable
B. contemptible
C. earn
D. purity

25. DISHONESTY:

A. blunder
B. error
C. abandon
D. honesty

26. INSERT:

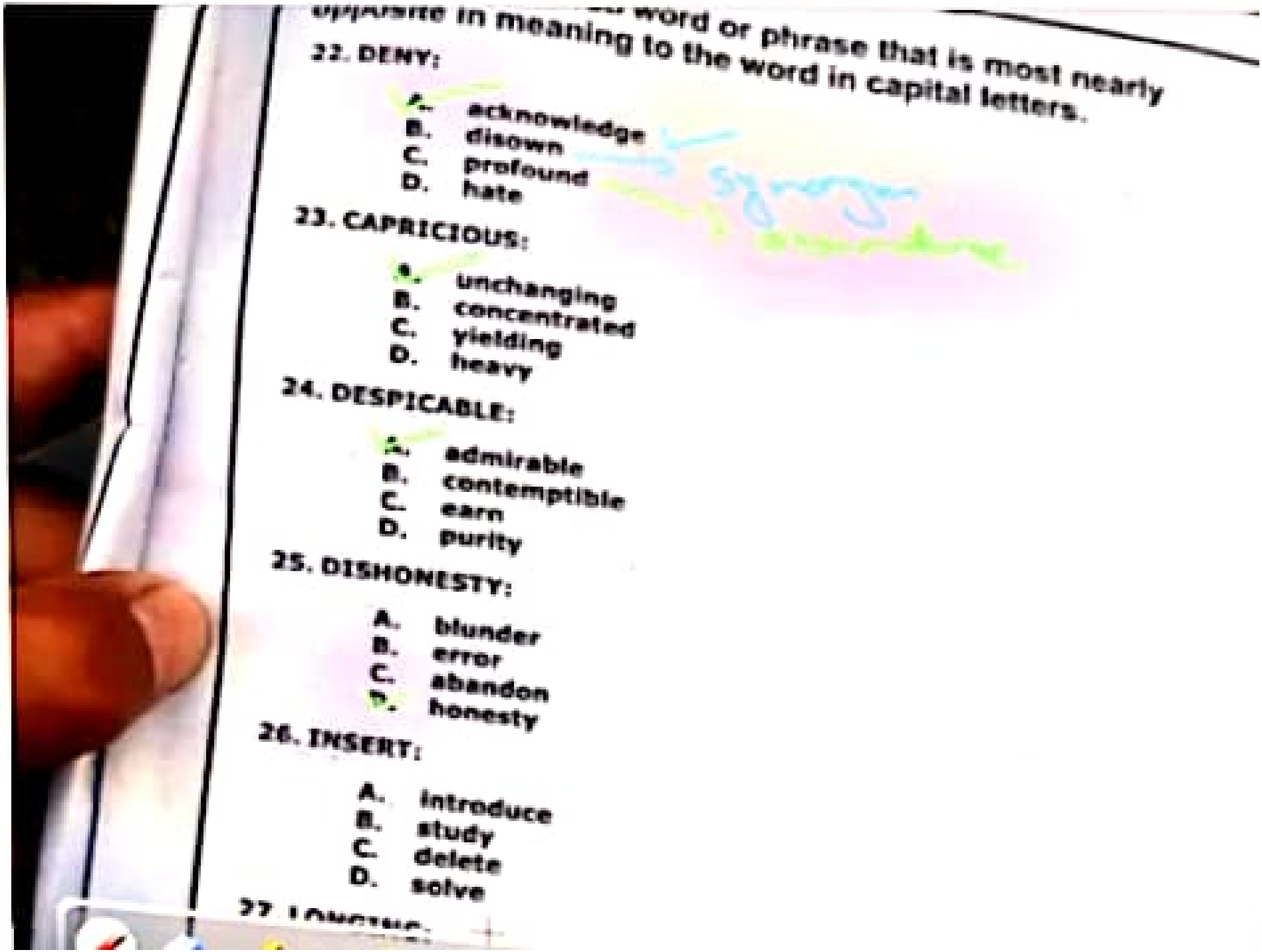
A. introduce
B. study
C. delete
D. solve

27. LONGING:

A. craving
B. hatred
C. sadness
D. analyze

28. GALLANT:

A. bold
B. fine
C. frolic
D. cowardly



opposite in meaning to the word in capital letters.

22. DENY:

A. acknowledge
B. disown
C. profound
D. hate

23. CAPRICIOUS:

A. unchanging
B. concentrated
C. yielding
D. heavy

24. DESPICABLE:

A. admirable
B. contemptible
C. earn
D. purity

25. DISHONESTY:

A. blunder
B. error
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D. honesty

26. INSERT:

A. introduce
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D. solve

At the end of the year, they make a profit of Rs.26400. What is the share of X in the profit?

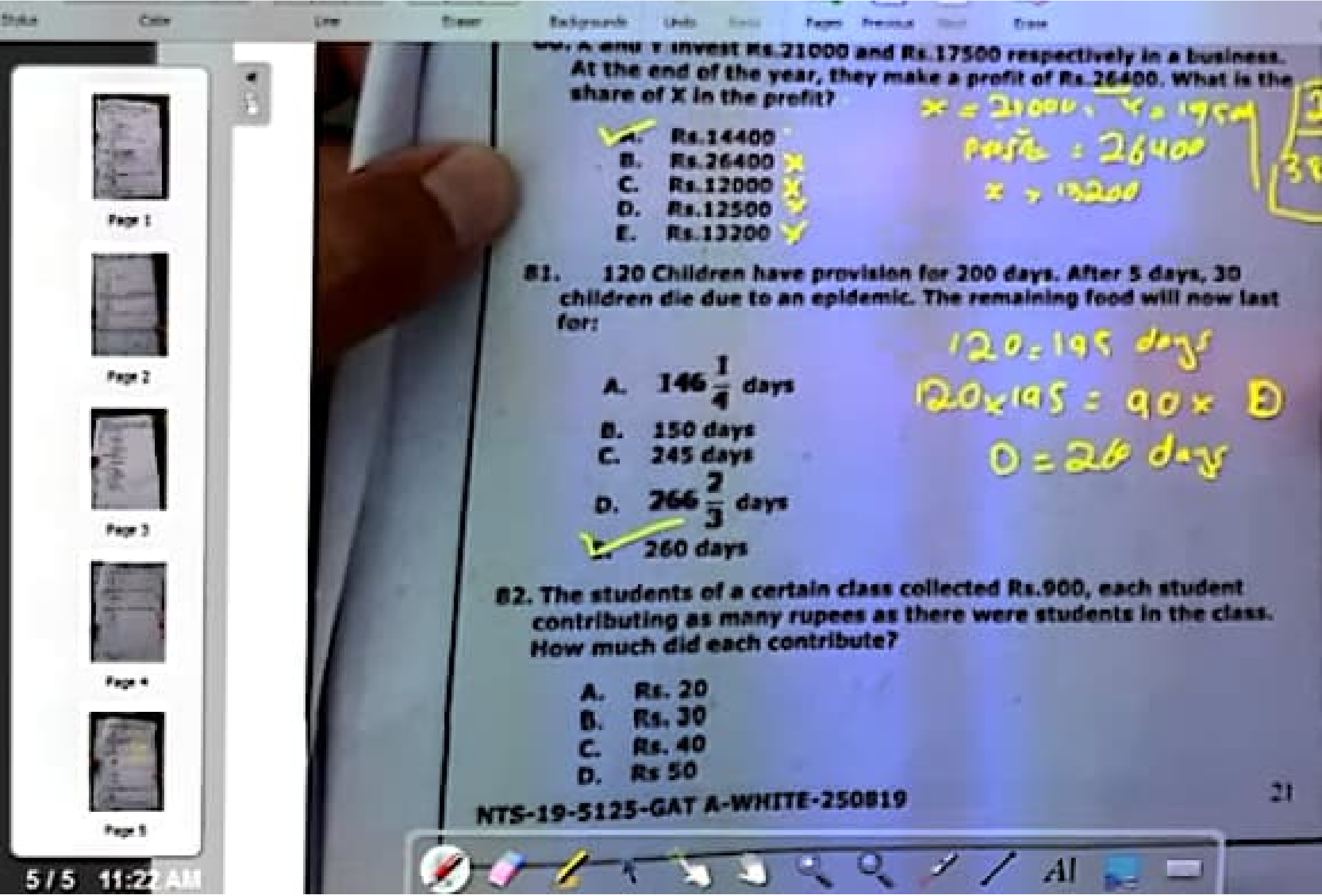
A. Rs.14400
B. Rs.26400
C. Rs.12000
D. Rs.12500
E. Rs.13200

81. 120 Children have provision for 200 days. After 5 days, 30 children die due to an epidemic. The remaining food will now last for:

A. $146\frac{2}{4}$ days
B. 150 days
C. 245 days
D. $266\frac{2}{3}$ days
E. 260 days

82. The students of a certain class collected Rs.900, each student contributing as many rupees as there were students in the class. How much did each contribute?

A. Rs. 20
B. Rs. 30
C. Rs. 40
D. Rs 50



measure exactly the lengths 8 m, 4 m 20 cm and 12 m 20 cm?

A. 10 m
B. 20 cm
C. 25 cm
D. 30 cm
E. 20 m

79. An accurate clock shows 8 O'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O'clock in the afternoon?

A. 100
B. 90
C. 180
D. 210
E. 150

12 hrs = 360°
1 hr = 30°
6 hr = 180°

80. X and Y invest Rs.21000 and Rs.17500 respectively in a business. At the end of the year, they make a profit of Rs.26400. What is the share of X in the profit?

A. Rs.14400
B. Rs.26400
C. Rs.12000
D. Rs.12500
E. Rs.13200

profit = 2640

81. 120 Children have provision for 200 days. After 5 days, 30 children die due to an epidemic. The remaining food will now last for:

A. $146\frac{1}{4}$ days

B. 150 days
235 days

5/5 11:21 AM

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C. 25 cm
D. 30 cm
E. 20 m

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81. 120 Children have provision for 200 days. After 5 days, 30 children die due to an epidemic. The remaining food will now last for:

A. $146\frac{1}{4}$ days
B. 150 days
C. 245 days

78. What is the greatest possible length which can be used to measure exactly the lengths 8 m, 4 m 20 cm and 12 m 20 cm?

A. 10 m
B. 20 cm
C. 25 cm
D. 30 cm
E. 20 m

79. An accurate clock shows 8 O'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O'clock in the afternoon?

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72. If x is an integer between 11 and 21, inclusive, then the median of the list of numbers below must be:

13, 15, 17, 19, x, 14, 16, 18, 20

A. either 15 or 16
B. either 16 or 17
C. either 17 or 18
D. 16.5
E. x

73. It takes Ali 5 hours to paint a certain room. It takes Ahmed 4 hours to paint the same room. How many hours would it take Ali and Ahmed working together at their respective rates to paint the room together?

A. $\frac{9}{20}$ hours
B. $2\frac{2}{9}$ hours
C. $2\frac{1}{2}$ hours
D. 9 hours

72. If x is an integer between 11 and 21, inclusive, then the median of the list of numbers below must be:

13, 15, 17, 19, x, 14, 16, 18, 20

A. either 15 or 16
B. either 16 or 17
C. either 17 or 18
D. 16.5
E. x

$x = 11$, $M = 16$

$x = 21$

13, 14, 15, 16, 17, 18, 19, 20, 21

$M = 17$

73. It takes Ali 5 hours to paint a certain room. It takes Ahmed 4 hours to paint the same room. How many hours would it take Ali and Ahmed working together at their respective rates to paint the room together?

A. $\frac{9}{20}$ hours
B. $2\frac{2}{9}$ hours
C. $2\frac{1}{7}$ hours
D. 9 hours

$5\text{hr} = x \Rightarrow 1\text{hr} = x/5$.

$4\text{hr} = x \Rightarrow 1\text{hr} = x/4$.

Combine:

$\frac{1}{1\text{ hr}} = \frac{x}{4 \cdot 5} + \frac{x}{5 \cdot 4}$ $\frac{9x}{20}$

$1\text{ hr} = \frac{9x}{20}$

$\frac{20\text{ hr}}{9} = x$

E. 440

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B. $2\frac{2}{9}$ hours

C. $2\frac{1}{2}$ hours

D. 9 hours

71. In a certain sequence with terms $x_1, x_2, x_3, \ldots x_n$ the sum of the 'n' terms is 1,458. If the average of the n terms is 6, what is 'n'?

A. 241
B. 242
C. 243
D. 245
E. 246

72. If x is an integer between 11 and 21, inclusive, then the median of the list of numbers below must be:

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$\frac{2}{3}$

A. slavish: kindly
B. fanatical: enthusiastic
C. acute: chronic
D. temporary: permanent
E. habitual: continuous

19. EXPEND: REPLENISH::

A. occupy: re-occupy
B. encroachment: occupy
C. resign: rejoin
D. ferment: rebellion
E. exhort: encourage

20. GOOD: EXCELLENT::

A. bad: immoral
B. caution: careless
C. hill: mountain
D. jealousy: respect
E. sickness: medicines

21. CONVICT: GUILTY::

A. clock: digital
B. rainforest: lush
C. film: lengthy
D. parachute: heavy

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A. clock: digital
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D. parachute: heavy

words given in capitals ... expresses a relationship similar to that expressed in the original pair in capitals.

17. VERDICT: JUDGMENT::

A. jet: helicopter
B. observation: science
C. principal: school
D. infant: baby

18. ADDICTED: DEDICATED::

A. slavish: kindly
B. fanatical: enthusiastic
C. acute: chronic
D. temporary: permanent
E. habitual: continuous

19. EXPEND: REPLENISH::

A. occupy: re-occupy
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C. resign: rejoin
D. ferment: rebellion
E. exhort: encourage

20. GOOD: EXCELLENT::

A. bad: immoral
B. caution: careless
C. hill: mountain
D. jealousy: respect
E. [illegible]

21. CONVICT: GUILTY::

C. Rs.4.50
D. Rs.5.00
E. Rs.6.00

76. If half the range of the increasing series {11, A, 23, B, C, 68, 73} is equal to its median, what is the median of the series?

A. 22
B. 31
C. 33
D. 41
E. 62

range = 73 - 11
$M = \frac{\text{range}}{2} = \frac{62}{2} = 31$
M = 31

77. In a class of 100 students, 55 students have passed Mathematics and 67 students have passed in Physics. Then the number of students who have passed in Physics only is:

A. 33
B. 22
C. 45
D. 10
E. 12

100
55 M 67
122 − 67 = 55

B. Rs.3.00
C. Rs.4.50
D. Rs.5.00
E. Rs.6.00

76. If half the range of the increasing series {11, A, 23, B, C, 68, 73} is equal to its median, what is the median of the series?

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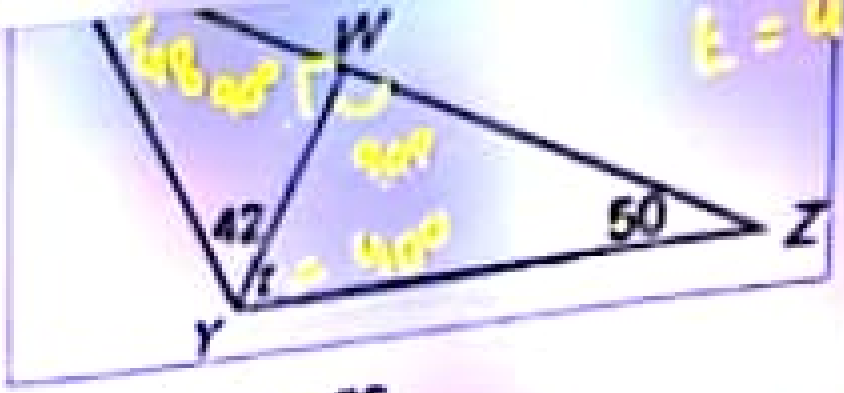

A. t – 88
B. t + 88
C. 88 – t
D. t – 50
E. 50 – t

75. At a fast food restaurant, two burgers and five orders of French fries cost the same as four burgers and two orders of French fries. If the restaurant charges Rs.1.50 for a single order of French fries, how much does it charge for two burgers?

A. Rs.2.25
B. Rs.3.00
C. Rs.4.50
D. Rs.5.00
E. Rs.6.00

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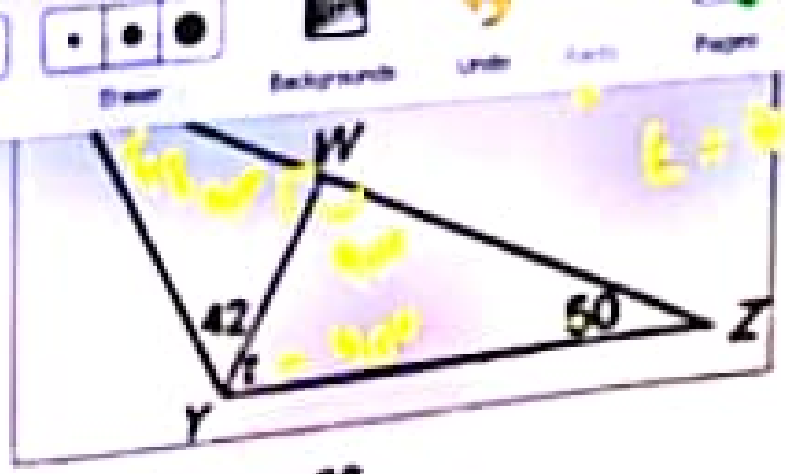

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B. t + 88
C. 88 - t
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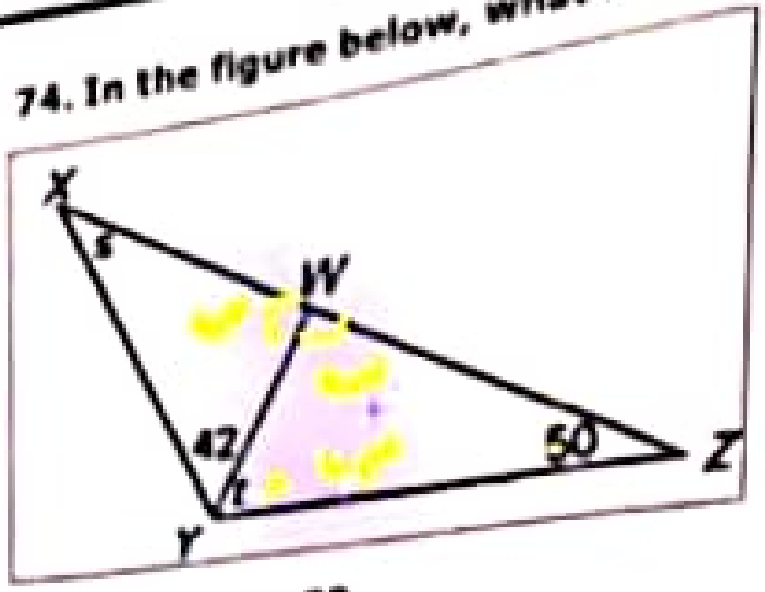
A. 23

74. In the figure below, what is 's' in terms of 't'?



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76.

A. with
B. to
C. on
D. about

4. Only in extremely dangerous situations _____ stopped.

A. will be the printing presses
B. the printing presses will be
C. that the printing presses will be
D. will the printing presses be

5. He is so bad-tempered that he has _____ friends.

A. few
B. a few
C. lot of
D. a lot of

6. This paper intends to fearlessly _____ all forms of corruption and falsehood in public life.

A. expose
B. present
C. uncover
D. influence

A. with
B. to
C. on
D. about

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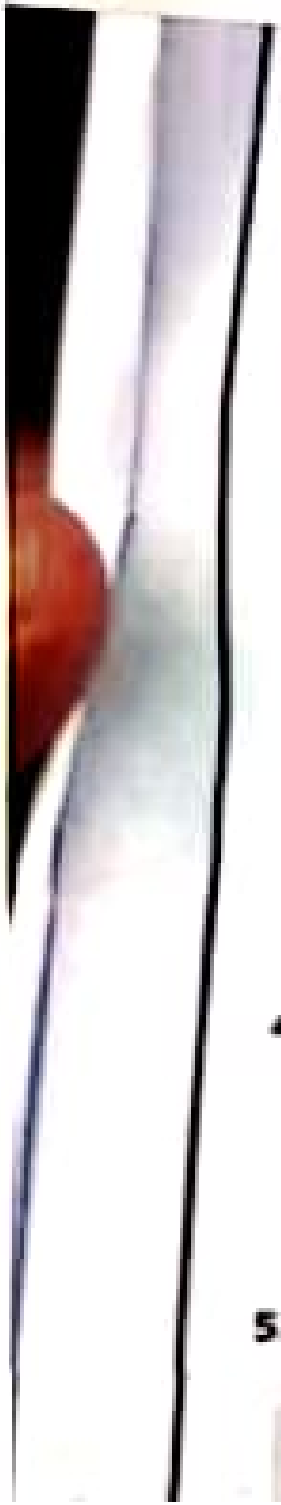

the charge.

...evence against him, he was acquitted ____

A. of
B. off
C. for
D. with

2. The counter clerk was very busy and _____ not pay any _____ to Ahmad's request.

A. did ... attention
B. had ... cash
C. could ... respect
D. can ... help
E. certainly ... acceptance

3. Your behaviour is not compatible _____ the rules.

A. with
B. to
C. on
D. about

4. Only in extremely dangerous situations _____ stopped.

A. will be the printing presses
B. the printing presses will be
C. that the printing presses will be
D. will the printing presses be

5. He is so bad-tempered that he has _____ friends.

A. few
B. ewk