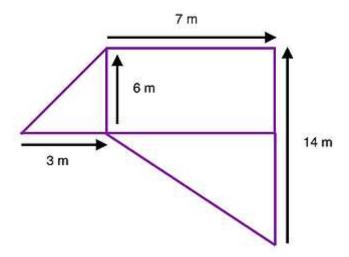
# ADDITIONAL NUMERICAL REASONING MENTAL ARITHMETIC EXAMINATION



- 1) What is 20 / 0.8 = ?
- a) 25
- b) 18
- c) 4
- d) 0.4
- 2) Calculate 179  $\times$  86 = ?
- a) 15,284
- b) 15,394
- c) 15,356
- d) 15,424
- 3) If 5 apples cost 75p, how many can be bought for £2.70? (Assuming they can be bought singly).
- a) 16
- b) 22
- c) 18
- d) 20
- 4) Part of an aircraft's cargo hold consists of the following dimensions. Calculate the area of the wall in square meters.

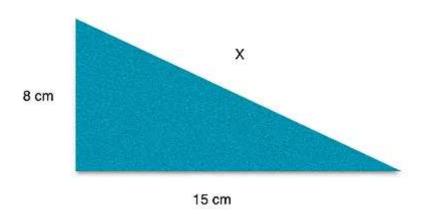


- a) 87 meters squared
- b) 83 meters squared
- c) 85 meters squared
- d) 79 meters squared
- 5) A car left Cambridge at 07:18 and arrived at Gatwick, travelling a distance of 180 miles at 11:06 am. What was the average speed in miles per hour (pick the closest answer)?
- a) 43 mph
- b) 45 mph
- c) 49 mph
- d) 47 mph
- 6) A 737 flies 930 miles in 75 minutes. How many miles does it fly in 4 hours 45 minutes assuming as constant speed?
- a) 3534
- b) 3548
- c) 3368
- d) 3552
- 7) If you travel 1248 miles, how much fuel will you need if you burn 4500 kgs per hour and are travelling at 720 mph?
- a) 7800 kgs
- b) 6800 kgs
- c) 7200 kgs
- d) 7400 kgs

•	Numerical Reasoning Aptitude Example Tests for Pilots   FDF s for its A380 service. The airline sells 40% of the seats aining. How many seats were being sold originally?
a) 588 b) 672 c) 600 d) 700	
9) The average of 20 number greater than zero?	ers is zero. Of them, at the most, how many may be
a) 0 b) 1 c) 10 d) 19	
10) What is 65% of 380?	
a) 245 b) 247 c) 249 d) 251	
11) What is 7 cubed?	
a) 343 b) 347 c) 345 d) 349	
12) X squared=289 What is X	?
a) 13 b) 19 c) 17 d) 15	
	ounds for dollars at an exchange rate of 1 pound=1:72 does he get in return? (answer to the nearest dollar)
a) 626 b) 633 c) 619	

d) 623

#### 14) What is the value of X?



- a) 14
- b) 17
- c) 19
- d) 13

15) If an aircraft was cruising at an altitude of 39,000 ft and descended to an altitude 11,000 ft in 20 minutes, what was its average rate of descent?

- a) 1250 fpm
- b) 1600 fpm
- c) 1650 fpm
- d) 1400 fpm

16) How many minutes is 2 days 17 hours and 46 minutes?

- a) 4246
- b) 3946
- c) 3928
- d) 3958

17) If it's 17:00 UTC and Dubai is UTC + 5 and 7 hours behind Sydney, what is the local time in Sydney?

- a) 03:00
- b) 15:00
- c) 04:00
- d) 05:00

18) If an aircraft departed an airfield and headed directly south for 16 miles and then turned onto a heading of 270 degrees for 12 minutes at an average speed of

80 miles per hour, how many miles is it (in a straight line) from its original destination?

- a) 16
- b) 23
- c) 18
- d) 26
- 19) How many nautical miles can an aircraft travel if it is carrying 2880 kgs of fuel and burns 240 kgs an hour averaging a speed of 375 knots?
- a) 4,250 NM
- b) 3,800 NM
- c) 4,450 NM
- d) 4,500 NM
- 20) Given that you had 25 minutes to answer 20 questions on this test paper, on average, how much time did you have per question?
- a) 1m 20s
- b) 1m 10s
- c) 1m 15s
- d) 1m 12s

# **END OF TEST**

## Numerical Reasoning Mental Arithmetic Examination Answers

1) A 2) B 3) C 4) D 5) D 6) A 7) A 8) D 9) A 10) B 11) A 12) C 13) B 14) B 15) D 16) B 17) C 18) B 19) D 20) C

#### NUMERICAL REASONING PILOT PRACTICE TEST 2

- 1) What is the missing number: 7, 10, 14, 19, ...., 32
- a) 25
- b) 24
- c) 26
- d) 27
- 2) A First Officer earns £52,000 a year. If she gets a wage increase of 3%, what will her new wage be?
- a) £53,240
- b) £53,560

- c) £53,760
- d) £53,440
- 3) What is 17% of 1112 rounded to the nearest whole number?
- a) 173
- b) 183
- c) 179
- d) 189
- 4) What is the average of these 4 numbers: 87, 92, 74, 19
- a) 68
- b) 72
- c) 60
- d) 56
- 5) If an aircraft is travelling at 300 knots, how many miles will it travel in 3 hours and 40 minutes?
- a) 1,120 NM
- b) 1,260 NM
- c) 990 NM
- d) 1,100 NM
- 6) If a right handed triangle's two shortest sides are both 17m each, what is the length of the longest side (to the nearest whole number)
- a) 25m
- b) 23m
- c) 24m
- d) 27m
- 7) What is 32 x 78 143?
- a) 2375
- b) 2373
- c) 2353
- d) 2355
- 8) What is the missing number?

- a) 2
- b) 1
- c) 4
- d) 3
- 9) What is 20% of 120 plus 33.33% of 99?
- a) 57
- b) 55
- c) 53
- d) 51
- 10) What is 1987 379?
- a) 1718
- b) 1708
- c) 1798
- d) 1608

### **Answers**:

```
1) a

2) b - 52,000 x 0.03 = 1560 + 52,000 = £53,560

3) d

4) a - 87+92+74+19 / 4

5) d - 300 x 3 = 900. 60 minutes / 20 minutes = 3. 300/3 =100. 100 x 2 + 900 = 1100 NM

6) c - A squared + B squared = C squared

7) c

8) a - 24/36 is 2 thirds

9) a

10) d
```

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