1		in a certain culture is 300 000, and the xpected to increase by 100 000 every 17	
	At this rate, what time will the numbe current number?	r of bacteria in the culture double from its	
	A 10:42 AM	D 9:5 <mark>1 AM</mark>	
	B 10:34 AM	E 9:34 AM	
	C 10:00 AM		
2	The regular price of apricots at the groot	cery store is \$7 per kilogram.	
	During a sale, the price is reduced by 3	30 percent.	
	How much does Snow White save if the sale?	she buys $2\frac{1}{2}$ kilograms of apricots during	
	A \$17.50	D \$4.20	
	B \$5.25	E \$2.10	
	C \$4.90		
3	A fruit stand sells apples for 25 cents e	ach and plums for 40 cents each.	
	How many apples did she buy if Cin \$28?	derella bought 100 apples and plums for	
	A 80 apples	D 30 apples	
	B 50 apples	E 20 apples	
	C 40 apples		
4	If 18 litres of petrol cost \$30.60, how much do 24 litres of petrol cost at this rate?		
	A \$40.80	D \$73.10	
	B \$55.80	E \$75.90	
	C \$61.20		

5	Captain Jack Sparrow found a treasure chest containing 280 coins.		
	If 30 percent of the coins were gold, 25 percent were silver, and the rest were copper, how many copper coins were in the treasure chest?		
	A 70 copper coins	D	104 copper coins
	B 84 copper coins	Ε	126 copper coins
	C 96 copper coins		
6	Bob the Builder has a piece of lumber	40 m	etres long.
	He cuts the lumber into two pieces.		
	If one piece is 18 metres longer than shorter piece?	the	other piece, what is the length of the
	A 9 metres	D	22 metres
	B 11 metres	E	29 metres
	C 18 metres		
7	Marly bought 2 pens and 10 pencils fo	r \$48	
	If each of the 2 pens costs three time much did each pen cost?	es as	much as each of the 10 pencils, how
	A \$12	D	\$4
	B \$9	Ε	\$3
	C \$6		
8	The ages of Paul, George, and Ringo	sum	to 96 years.
	If Paul is 9 years older than George a Ringo?	and 9	years younger than Ringo, how old is
	A 23 years old	D	41 years old
	B 32 years old	Ε	44 years old
	C 35 years old		

9	A certain survey needs at least 300 responses to validate the result.			
	If it is expected that 60 percent of those who received the survey questionnaire by mail will respond, what is the least number of survey questionnaires that should be mailed?			
	A 4	100 survey questionnaires	D	500 survey questionnaires
	B 4	420 survey questionnaires	Ε	640 survey questionnaires
	C 4	180 survey questionnaires		
10		Cory been 8 centimetres shorter, gan.	he	would be twice as tall as her sister,
	If the	e combined height of Cory and Morg	jan	is 278 centimetres, how tall is Cory?
	A 1	131 centimetres	D	147 centimetres
	B 1	135 centimetres	E	188 centimetres
	C 1	139 centimetres		
11	Dea	n had a piece of rope 50 metres lon	g.	
	He	cut the rope into two pieces.		
	If one piece is 14 metres longer than the other piece, what is the length of the longer piece?			
	A 3	36 metres	D	18 metres
	B 3	32 metres	Ε	14 metres
	C 2	24 metres		
12	A ja	r contains black and white tokens or	ıly i	n a ratio of 5:3, respectively.
	Whi	ch of the following could not be the t	ota	number of tokens in the jar?
	A 8	3 tokens	D	160 tokens
	B 5	50 tokens	Ε	200 tokens
	C 1	120 tokens		

	_			
13	According to a recent study, there were only 96 type O stars for every 100 million stars in the Milky Way galaxy.			
		here are 3 billion stars in the Milky Waters?	∕ay	galaxy, how many of these were type
	Α	288	D	3 200
	В	320	Ε	28 800
	С	2 880		
14		d the mass of the iron ball been 10 leads of the percent heavier than the steel ball.	kilo	grams heavier, it wou <mark>ld hav</mark> e weighed
		he combined mass of the iron and ste the iron ball?	el l	oall is 340 kilograms, what is the mass
	Α	140 kilograms	D	190 kilograms
	В	160 kilograms	E	200 kilograms
	С	170 kilograms		
15		e ratio of the number of brown covacDonald's farm is 6 to 7.	vs	to the number of black cows on Old
		here are 18 brown cows, what is the farm?	tota	al number of brown and black cows on
	Α	18 cows	D	28 cows
	В	21 cows	Ε	39 cows
	С	27 cows		

16 Six months ago, the water level at the reservoir was 222 metres.

If the current water level in the reservoir is 198 metres and continues to decrease at the same average monthly rate, in how many months will the water level be 180 metres?

A 3 months D 4.5 months

B 3.5 months E 5 months

C 4 months

17 Hank walks the first $\frac{2}{3}$ of the distance from the gym to the mall at 10 kilometres per hour and walks the remaining distance at 3 kilometres per hour.

If it took Hank 40 minutes to walk from the gym to the mall, how far did Hank walk from the gym to the mall?

A 1.2 kilometres D 6 kilometres

B 3.75 kilometres **E** 10 kilometres

C 5 kilometres

18 At the post office, a customer can buy a roll of 100 stamps for \$1.50, a roll of 50 stamps for \$1, or 3 cents each.

What is the greatest possible number of stamps you can buy with \$7.30?

A 426 stamps D 460 stamps

B 430 stamps E 486 stamps

C 443 stamps

19	During the mall sale, Barbie spent $\frac{3}{5}$ remaining money on a pair of shoes.	of her money on a bag and spent $\frac{1}{3}$ of the	
	If she had \$80 left, how much money	did she have at the start?	
	A \$240 B \$300	D \$360 E \$480	
	C \$320		
20	A trail mix snack is made up of nuts respectively.	, dried fruits, and chips in a ratio of 2:3:7,	
	How many grams of nuts are there in	a 156-gram trail mix snack?	
	A 13 grams	D 91 grams	
	B 26 grams	E 130 grams	
	C 39 grams		
21	buying 6 magic wands and 4 cauldron	nds and 8 cauldrons, while Ron spent \$36 s. and one cauldron, how much did she pay?	
	A \$6	D \$9	
	B \$7	E \$10	
	C \$8		
22	Ash only had two types of pokeballs, 7.	great balls and ultra balls, in a ratio of 4 to	
	If each ultra ball has a mass of 230 grams and the combined mass of all his ultra balls is 12 880 grams, how many great balls did Ash have?		
	A 18 great balls	D 56 great balls	
	B 28 great balls	E 60 great balls	
	C 32 great balls		

23 Last year, a bee flew a total of 6 252 metres.

If the bee continues to travel at the same average monthly rate this year, how far will the bee fly in the next 3 months?

A 1 563 metres **D** 2 476 metres

B 1 683 metres **E** 3 1<mark>26 metres</mark>

C 2 063 metres

24 The Tennis Club has a total of 21 members.

If the number of female members is 3 less than 3 times the number of male members, how many male members does the Tennis Club have?

A 5 male members D 9 male members

B 6 male members **E** 15 male members

C 8 male members

25 Elsa's phone plan charges a \$1.95 connection fee plus 10 cents per minute for a long-distance call.

Anna's phone plan charges a \$5.95 connection fee plus 8 cents per minute for a long-distance call.

What total number of minutes of long-distance call will the total charge for the two phone plans be the same?

A 100 minutes D 180 minutes

B 120 minutes E 200 minutes

C 150 minutes

26 Huey, Dewey, and Louie have a total of 72 stickers. If Huey has three times as many stickers as Louie but only three-fourths as many stickers as Dewey, how many stickers does Dewey have? A 8 stickers **D** 32 stickers **B** 9 stickers E 36 stickers C 27 stickers 27 Blossom, Bubbles, and Buttercup each have a collection of stamps. The combined number of stamps that Blossom and Bubbles have is 50 less than the combined number of stamps that Bubbles and Buttercup have. If Buttercup has 10 more than twice the number of stamps that Blossom has, how many stamps does Buttercup have? A 40 stamps **D** 80 stamps E 90 stamps **B** 50 stamps C 60 stamps 28 FastTrack Taxi charges a flag-down rate of \$10 plus 25 cents per kilometre travelled, while United Taxi charges a flag-down rate of \$12 plus 20 cents per kilometre travelled. For how many total kilometres travelled will the charge of the two taxi services be the same? A 2 kilometres D 40 kilometres **B** 10 kilometres E 60 kilometres C 20 kilometres

29	Fly	Flynn is currently four times as old as Rapunzel.			
	If three years from today, Flynn will be three times as old as Rapunzel, how old is Flynn now?				
	Α	3 years old	D	24 years old	
	В	6 years old	Ε	36 years old	
	С	12 years old			
		·			
30	Mickey Mouse, working alone at a constant rate, can paint a wall in 6 hours, while Donald Duck, working alone at a constant rate, can paint the same wall in 10 hours.				
	If the two of them work together, at their respective constant rates, painting the wall, how long will it take both of them to paint the wall?				
	Α	3 hours 45 minutes	D	3 hours 20 minutes	
	В	3 hours 30 minutes	E	3 hours 15 minutes	
	С	3 hours 25 minutes			
31	Mr. Romero left one-fourth of his estate to his wife, and each of his three children got one-fourth of the remaining.			his wife, and each of his three children	
	If his wife and one of his children got \$350 000 from the estate, what was the total amount of Mr. Romero's estate?				
	Α	\$800 000	D	\$1 350 000	
	В	\$960 000	Ε	\$1 800 000	
	С	\$1 080 000			
32	Th	e machine at the factory can make 8 v	wid	gets every 8 seconds.	
	At	At this rate, how many widgets can the machine make in 8 minutes?			
	Α	8 widgets	D	240 widgets	
	В	16 widgets	Ε	480 widgets	
	С	60 widgets			

The total number of students in Steve Xu's selective class can be evenly divided into 6 equal groups or 27 equal groups.

What is the smallest possible total number of students in Steve Xu's selective class?

A 27 students D 81 students

B 33 students E 162 students

C 54 students

34 If it takes 8 seconds for 8 identical machines, each working at the same constant rate, to produce 8 widgets, how many seconds will it take 40 such machines to make 40 widgets?

A 4 seconds D 20 seconds

B 8 seconds **E** 40 seconds

C 16 seconds

35 Eight workers can make 360 birdhouses per hour.

If each worker works at the same constant rate, how many birdhouses can 5 such workers make in 3 hours?

A 675 birdhouses D 5 900 birdhouses

B 750 birdhouses E 7 500 birdhouses

C 1 800 birdhouses