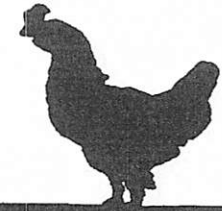


What Do You Call a Chicken Who Eats Clay ?



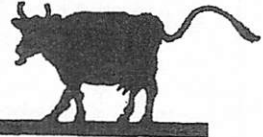
Solve each problem and find your answer in the rectangle below. Cross out the box containing your answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

- ① Harry can paint a room in 3 hours, and Kerry can paint it in 4 hours. How long will it take if they work together?
- ② Matthew can build a block wall in 3 days. Andy can build the wall in 5 days. How long will it take if they work together?
- ③ Pump A can fill a tank in 8 hours. Pump B can fill the tank in 6 hours. How long will it take to fill the tank using both pumps?
- ④ To do a job alone, it would take Jennifer 5 hours, Bob 8 hours, and George 10 hours. How long would it take if they all work together?
- ⑤ Susan and Mary working together can rake a lawn in 2 hours. Susan can do the job alone in 3 hours. How long would it take Mary to rake the lawn alone?
- ⑥ Pipe A can empty a pool in 8 hours. If Pipe B is also used, the pool can be emptied in 3 hours. How long would it take Pipe B, by itself, to empty the pool?
- ⑦ Noah can build an ark in 40 days. Together, Noah and his wife can build the ark in 24 days. How long would it take Noah's wife working alone?

CH 6 h	AB 58 d	AD $1\frac{5}{7}$ h	IG 60 d	R $2\frac{11}{17}$ h	OP $1\frac{7}{8}$ d	IC 7 h
H $3\frac{3}{7}$ h	KL $4\frac{7}{8}$ h	A $1\frac{2}{3}$ d	TE $4\frac{4}{5}$ h	YE 75 d	GG $2\frac{6}{17}$ h	R $3\frac{7}{10}$ h

What Do You Call a Cow After She Has a Baby?

Solve each problem using a system of two equations in two variables. Cross out the box that contains your answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.



- 1 A boat travels 60 km upstream (against the current) in 5 hours. The boat travels the same distance downstream in 3 hours. What is the rate of the boat in still water? What is the rate of the current?
- 2 When a plane flies into the wind, it can travel 3000 km in 6 hours. When it flies with the wind, it can travel the same distance in 5 hours. Find the rate of the plane in still air and the rate of the wind.
- 3 When Lucy swims with the current, she swims 18 km in 2 hours. Against the current, she can swim only 14 km in the same time. How fast can Lucy swim in still water? What is the rate of the current?
- 4 With the wind, a jet can fly 2500 km in 2 h 30 min. Against the wind, it can fly only 2000 km in the same time. Find the rate of the jet in still air and the rate of the wind.
- 5 On an upstream trip, a canoe travels 40 km in 5 hours. Downstream, it travels the same distance in half the time. What is the rate of the canoe in still water and the rate of the current?
- 6 A duck can fly 2400 m in 10 min with the wind. Against the wind, it can fly only two thirds of this distance in 10 min. How fast could the duck fly in still air? What is the rate of the wind?
- 7 With the wind, a plane flew 1400 km in 4 hours. On the return trip, the pilot was forced to land after 1 h 30 min, having traveled only 450 km. Find the rate of the plane in still air and the rate of the wind.
- 8 A salmon swims 100 m in 8 min downstream. Upstream, it would take the fish 20 min to swim the same distance. What is the rate of the salmon in still water? What is the rate of the current?

MA	DE	AL	AR	CA	ME	LL
325 km/h	9.5 m/min	16 km/h	8.75 m/min	310 km/h	8 km/h	12 km/h
25 km/h	3 m/min	4 km/h	3.75 m/min	40 km/h	1 km/h	4 km/h
LF	IN	TO	AT	HE	ED	MA
15 km/h	620 km/h	200 m/min	10 km/h	550 km/h	180 m/min	900 km/h
6 km/h	60 km/h	40 m/min	2 km/h	50 km/h	30 m/min	100 km/h

Why Is a Plowed Field Like Feathered Game?



Solve each problem below and find the solution at the bottom of the page. Write the letters next to the problem in the two boxes above the solution.



IS Nuts to You Shoppe sells cashews for \$15 per kg and pecans for \$10 per kg. How many kilograms of each should be mixed in order to get 20 kg of a mixture worth \$12 per kg?

_____ kg of cashews
_____ kg of pecans

ES Coffee Grounds, Inc., has two kinds of coffee. Coffee A costs \$9 per kg and Coffee B costs \$6 per kg. How many kilograms of each should be combined to obtain 150 kg of a blend worth \$8 per kg?

_____ kg of Coffee A
_____ kg of Coffee B

RT C and Y Candy Company mixes candy that costs \$6.00 per kg with candy that costs \$4.50 per kg. How many kilograms of each are needed to make a 3 kg box that costs \$15.00?

_____ kg of \$6.00 candy
_____ kg of \$4.50 candy

IT Trail Snax Corp. mixes raisins that cost \$5.00 per kg with peanuts that cost \$3.80 a kg. How many kilograms of raisins should be mixed with 10 kg of peanuts to obtain a mixture worth \$4.00 per kg?

_____ kg of raisins

RI Ground beef sells for \$4.75 per kg and ground pork sells for \$5.50 per kg. How many kilograms of ground pork should be mixed with 8 kg of ground beef to make a mixture that sells for \$5.10 per kg?

_____ kg of pork

PA Speed Seed Company mixes bluegrass seed that costs \$7.60 per kilogram with ryegrass seed that costs \$6.25 a kg. How many kilograms of bluegrass seed should be mixed with 200 kg of ryegrass seed to make a mixture worth \$7.00 per kg?

_____ kg of bluegrass

DG A card company mixes two varieties of cards. Embossed cards cost \$.65 each, and regular cards \$.40 each. How many cards of each type should be included in an assortment of 25 cards that costs \$14.00?

_____ embossed cards
_____ regular cards

90			8			1	10		16	100	1.5
60	2	5	12	175	250	2	15	7	9	50	1.5

What Happened to the Computer Programmer?

Solve each problem below and find the solution in the answer column. Notice the letter next to it. Look for this letter in the string of letters near the bottom of the page and **CROSS IT OUT** each time it appears. When you finish, write the remaining letters in the rectangle at the bottom of the page.

- ① How many liters of water must be added to 8 liters of a 40% acid solution to obtain a 10% acid solution?
 - ② How many liters of water must be added to 20 liters of a 70% antifreeze solution to produce a 50% solution?
 - ③ Bunson Beaker has 150 grams of a 50% salt solution. How many grams of water must be added to obtain a 20% salt solution?
 - ④ How much water must be added to 12 grams of a 90% iodine solution to produce a 25% iodine solution?
 - ⑤ Moonshine has 50 liters of a 70% alcohol solution. How many liters of pure alcohol must be added to obtain an 80% alcohol solution?
 - ⑥ How many kilograms of pure salt must be added to 20 kilograms of a 10% salt solution to obtain a 25% salt solution?
 - ⑦ How much pure acid must be added to 6 milliliters of a 5% acid solution to produce a 40% acid solution?
- (E) 22 ℓ
(S) 4 kg
(A) 3.1 ml
(U) 8 ℓ
(W) 32.5 g
(M) 225 g
(O) 3.5 ml
(L) 24 ℓ
(D) 5 ℓ
(I) 25 ℓ
(T) 5.5 kg
(R) 31.2 g
(H) 240 g

R H L I E S I W O E M N O S T U D O L A M I T O A U R W M A S Y

Answer: