Practice - Teamwork

- 1) Bills father can paint a room in two hours less than Bill can paint it. Working together they can complete the job in two hours and 24 minutes. How much time would each require working alone?
- 2) Of two inlet pipes, the smaller pipe takes four hours loner than the larger pipe to fill a pool. When both pipes are open, the pool is filled in three hours and forty-five minutes. If only the larger pipe is open, how many hours are required to fill the pool?
- 3) Jack can wash and wax teh family car in one hour less than Bob can. The two working together can complete teh job in $1\frac{1}{5}$ hours. How much time would each require if they worked alone?
- 4) If A can do a piece of work alone in 6 days and B can do it alone in 4 days, how long will it take the two working together to complete the job?
- 5) Working alone it takes John 8 hours longer than Carlos to do a job. Working together they can do the job in 3 hours. How long will it take each to do the job working alone?
- 6) A can do a piece of work in 3 days, B in 4 days, and C in 5 days each working

- alone. How long will it take them to do it working together?
- 7) A can do a piece of work in 4 days and B can do it in half the time. How long will it take them to do the work together?
- 8) A cistern can be filled by one pipe in 20 minutes and by another in 30 minutes. How long will it take both pipes together to fill the tank?
- 9) If A can do a piece of work in 24 days and A and B together can do it in 6 days, how long would it take B to do the work alone?
- 10) A carpenter and his assistant can do a piece of work in $3\frac{3}{4}$ days. If the carpenter himself could do teh work alone in 5 days, how long would the assistant take to do the work alone?
- 11) If Sam can do a certain job in 3 days, while it takes Fred 6 days to do the same job, how long will it take them, working together, to complete the job?
- 12) Tim can finish a certain job in 10 hours. It take his wife JoAnn only 8 hours to do the same job. If they work together, how long will it take them to complete the job?
- 13) Two people working together can complete a job in 6 hours. If one of them works twice as fast as the other, how long would it take the faster person, working alone, to do the job?
- 14) If two peopel working together can do a job in 3 hours, how long will it take the slower person to do the same job if one of them is 3 times as fast as the other?
- 15) A water tank can be filled by an inlet pipe in 8 hours. It takes twice that long for the outlet pipe to empty the tank. How long will it take to fill the tank if both pipes are open?
- 16) A sink can be filled from the faucet in 5 minutes. It takes only 3 minutes to empty the sink when the drain is open. If the sink is full and both the faucet and the drain are open, how lon will it take to empty the sink?
- 17) It takes 10 hours to fill a pool with the inlet pipe. It can be emptied in 15 hrs with the outlet pipe. If the pool is half full to begin with, how long will it take to fill it from there if both pipes are open?
- 18) A sink is $\frac{1}{4}$ full when both the faucet and the drain are opened. The faucet alone can fill the sink in 6 minutes, while it takes 8 minutes to empty it with the drain. How long will it take to fill the remaining $\frac{3}{4}$ of the sink?
- 19) A sink has two faucets, one for hot water and one for cold water. The sink

- can be filled by a cold-water faucet in 3.5 minutes. If both faucets are open, the sink is filled in 2.1 minutes. How long does it take to fill the sink with just the hot-water faucet open?
- 20) A water tank is being filled by two inlet pipes. Pipe A can fill the tank in $4\frac{1}{2}$ hrs, while both pipes together can fill teh tank in 2 hours. How long does it take to fill the tank using only pipe B?
- 21) A tank can be emptied by any one of three taps. The first can empty the tank in 20 minutes while the second takes 32 minutes. If all three working together could empty the tank in $8\frac{8}{59}$ minutes, how long would the third take to empty the tank?
- 22) One pipe can fill a cistern in $1\frac{1}{2}$ hours while a second pipe can fill it in $2\frac{1}{3}$ hrs. Three pipes working together fill the cistern in 42 minutes. How long would it take the third pipe alone to fill the tank?
- 23) Sam takes 6 hours longer than Susan to wax a floor. Working together they can wax the floor in 4 hours. How long will it take each of them working alone to wax the floor?
- 24) It takes Robert 9 hours longer than Paul to rapair a transmission. If it takes them $2\frac{2}{5}$ hours to do the job if they work together, how long will it take each of them working alone?
- 25) It takes Sally $10\frac{1}{2}$ minutes longer than Patricia to clean kup their dorm room. If they work together they can clean it in 5 minutes. How long will it take each of them if they work alone?
- 26) A takes $7\frac{1}{2}$ minutes longer than B to do a job. Working together they can do the job in 9 minutes. How long does it take each working alone?
- 27) Secretary A takes 6 minutes longer than Secretary B to type 10 pages of manuscript. If they divide the job and work together it will take them $8\frac{3}{4}$ minutes to type 10 pages. How long will it take each working alone to type the 10 pages?
- 28) It takes John 24 minutes longer than Sally to mow the lawn. If they work together they can mow the lawn in 9 minutes. How long will it take each to mow the lawn if they work alone?



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Answers - Teamwork

- 1) 4 and 6
- 2) 6 hours
- 3) 2 and 3
- 4) 2.4
- 5) C = 4, J = 12
- 6) 1.28 days
- 7) $1\frac{1}{3}$ days
- 8) 12 min
- 9) 8 days
- 10) 15 days

- 11) 2 days
- 12) $4\frac{4}{9}$ days
- 13) 9 hours
- 14) 12 hours
- 15) 16 hours
- 16) $7\frac{1}{2} \min$
- 17) 15 hours
- 18) 18 min
- 19) $5\frac{1}{4}$ min
- 20) 3.6 hours

- 21) 24 min
- 22) 180 min or 3 hrs
- 23) Su = 6, Sa = 12
- 24) 3 hrs and 12 hrs
- 25) P = 7, $S = 17\frac{1}{2}$
- 26) 15 and 22.5 min
- 27) A = 21, B = 15
- 28) 12 and 36 min



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